



## Acco Products Division

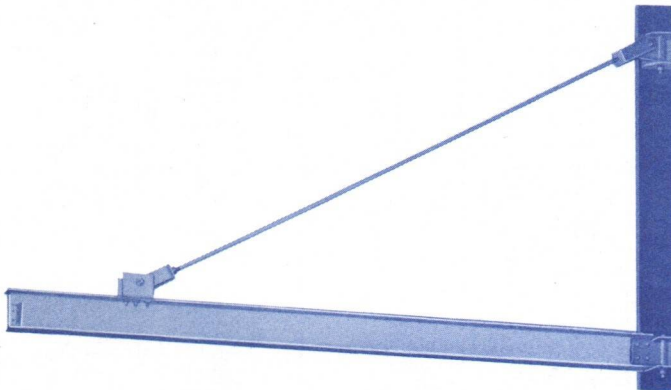
A division of Babcock Industries Inc.

Issued 10-1-85  
Supersedes 3-1-85

51-1

### SERIES 511

**WALL BRACKET  
JIB CRANES**  
CAPACITIES ½ to 5 TONS  
SPANS 8 to 30 FEET



An Acco Series 511 Wall Bracket Jib Crane is very desirable as a supplement to a regular traveling crane or monorail track, or for individual use in bays and along the walls or side of shops. It provides a versatile and cost-effective solution to your crane needs where adequate headroom and structural support exists. The jib crane rotates 200° serving the area within the radius of the beam's span.

All fittings are of structural steel components, manufactured to avoid reliance upon casting or tension welds. The components are bolted together to allow for ease in installation.

### CONSTRUCTION FEATURES

**TOP BRACKET:** The top bracket is a formed steel channel which is bolted to the wall support. A bolt connects the steel channel to the clevis holder. The clevis holder has a steel tube with two bronze bearings pressed into it, and wraps around channel. A thrust washer is provided for ease of rotation.

**BOTTOM BRACKET:** The bottom bracket has the same formed channel bracket, bolted connections, bearings and lubrication fittings as the top brackets.

The bottom bracket's two plates clamp both sides of the boom web, providing true double shear bolted connections and resistance to bending.

**BEAM BRACKET FITTING:** The bracket consists of a formed clevis which is fastened to the tie rod, and is bolted to the formed beam channel. This places the clevis retainer bolt in double shear.

**BOOM:** Standard I beam with removable end stops is used for the jib boom. In some cases it is reinforced with capped channel.

**TIE RODS:** A single tie rod, right-hand threaded at each end, is utilized for ease of leveling the boom.

**WARNING:** Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

**WARNING:** Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.

# 1/2 to 5 TONS

## SERIES 511 WALL BRACKET JIB CRANES

51-2

Capacity Tons	Span Ft.	Product Number	Beam W	Capped Channel Length	Bracket Center B	Tie Rod Length	Beam Bracket To Beam End D	Thrust and Pull Lbs.	Net Weight Lbs.
1/2	8	5110001	6		2'-9"	6'-1 1/2"	1'-3"	3,720	265
	10	5110002	6		3'-0"	7'-10 1/4"	1'-6"	4,420	300
	12	5110003	6		3'-9"	9'-9"	1'-9"	4,360	335
	14	5110004	6		4'-6"	11'-7 1/2"	2'-0"	4,330	375
	16	5110005	6		5'-6"	13'-10 1/2"	2'-0"	4,120	410
	18	5110006	7		6'-0"	15'-11"	2'-0"	4,400	495
	20	5110007	8		6'-6"	17'-8 1/2"	2'-3"	4,680	600
	22	5110008	8c6	18'-9"	7'-0"	19'-9 1/4"	2'-3"	5,130	905
	24	5110009	8c6	20'-6"	7'-6"	21'-7"	2'-6"	5,350	975
	26	5110010	10c6	22'-6"	8'-0"	23'-8 1/2"	2'-6"	5,810	1230
	28	5110011	10c6	24'-0"	9'-0"	25'-4 1/4"	3'-0"	5,680	1315
	30	5110012	12c8	25'-6"	10'-0"	27'-1"	3'-6"	6,040	1710
1	8	5110013	6		2'-9"	6'-1 1/2"	1'-3"	7,280	265
	10	5110014	6		3'-0"	7'-10 1/4"	1'-6"	8,620	300
	12	5110015	6		3'-9"	9'-9"	1'-9"	8,640	335
	14	5110016	7		4'-6"	11'-7 1/2"	2'-0"	8,440	415
	16	5110017	7		5'-6"	13'-7 1/2"	2'-3"	8,010	455
	18	5110018	8		6'-0"	15'-5'	2'-6"	8,450	555
	20	5110019	10		6'-6"	17'-5 1/4"	2'-6"	8,980	745
	22	5110020	10c6	8'-3"	7'-0"	19'-3 1/4"	2'-9"	9,580	1065
	24	5110021	10c6	20'-3"	7'-6"	21'-3 1/4"	2'-9"	9,890	1150
	26	5110022	10c6	22'-0"	8'-0"	23'-1 1/2"	3'-0"	10,190	1230
	28	5110023	12c8	23'-6"	9'-0"	24'-10 1/4"	3'-6"	10,320	1610
	30	5110024	12c8	25'-6"	10'-0"	27'-1"	3'-6"	10,100	1710
2	8	5110025	8		2'-9"	6'-0 1/2"	1'-3"	14,480	375
	10	5110026	8		3'-0"	7'-10"	1'-6"	17,170	435
	12	5110027	8		3'-9"	9'-8 1/2"	1'-9"	16,790	495
	14	5110028	8		4'-6"	11'-7 1/4"	2'-0"	16,590	550
	16	5110029	10		5'-6"	13'-6 1/2"	2'-3"	15,880	720
	18	5110030	10		6'-0"	15'-7 1/4"	2'-3"	16,570	795
	20	5110031	12		6'-6"	17'-4 1/2"	2'-6"	17,320	1000
	22	5110032	12c8	18'-6"	7'-0"	19'-5 1/2"	2'-6"	18,320	1420
	24	5110033	12c8	20'-0"	7'-6"	21'-0 1/2"	3'-0"	18,860	1535
	26	5110034	12c8	21'-6"	8'-0"	22'-7 1/4"	3'-6"	19,360	1650
	28	5110035	12c8	23'-6"	9'-0"	24'-10"	3'-6"	18,720	1760
	30	5110036	12c8	26'-0"	10'-0"	27'-6 1/4"	3'-0"	18,220	1895
3	8	5110037	8		2'-9"	6'-1 1/4"	1'-3"	21,600	435
	10	5110038	8		3'-3"	7'-11"	1'-6"	23,550	490
	12	5110039	10		4'-0"	9'-9 1/2"	1'-9"	23,570	630
	14	5110040	10		4'-9"	11'-8 1/4"	2'-0"	23,530	700
	16	5110041	10		5'-6"	13'-7"	2'-3"	23,510	765
	18	5110042	12		6'-3"	15'-8 1/4"	2'-3"	23,680	950
	20	5110043	12c8	16'-6"	7'-0"	17'-7 1/4"	2'-6"	24,060	1340
	22	5110044	12c8	18'-6"	7'-9"	19'-9"	2'-6"	24,140	1450
	24	5110045	12c8	20'-0"	8'-6"	21'-5"	3'-0"	24,220	1565
	26	5110046	12c8	22'-0"	9'-3"	23'-6 1/2"	3'-0"	24,310	1940
	28	5110047	12c8	24'-0"	10'-0"	25'-8"	3'-0"	24,410	2065
	30	5110048	12c8	26'-0"	11'-0"	27'-10 1/2"	3'-0"	23,950	2185
5	8	5110049	12		3'-0"	5'-10 1/4"	1'-6"	33,000	780
	10	5110050	12		3'-3"	7'-10"	1'-6"	39,260	860
	12	5110051	12		4'-0"	9'-7"	1'-9"	39,070	940
	14	5110052	12		4'-9"	11'-7 1/2"	2'-0"	38,970	1020
	16	5110053	15		5'-6"	13'-3"	2'-6"	39,180	1280
	18	5110054	15		6'-3"	14'-11"	3'-0"	39,150	1385
	20	5110055	15c10	15'-3"	7'-0"	16'-7"	3'-6"	39,660	1755
	22	5110056	15c10	17'-3"	7'-9"	18'-8 1/2"	3'-6"	39,740	1885
	24	5110057	15c10	19'-3"	8'-6"	20'-10 1/4"	3'-6"	39,850	2015
	26	5110058	15c10	21'-3"	9'-3"	23'-0"	3'-6"	39,960	2145
	28	5110059	15c10	23'-3"	10'-0"	25'-1 1/2"	3'-6"	40,070	2690
	30	5110060	15c10	25'-3"	11'-0"	27'-4 1/4"	3'-6"	39,280	2835

See page 51-41 for modifications and accessories.

All dimensions shown in inches.



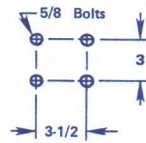


# SERIES 511 WALL BRACKET JIB CRANE

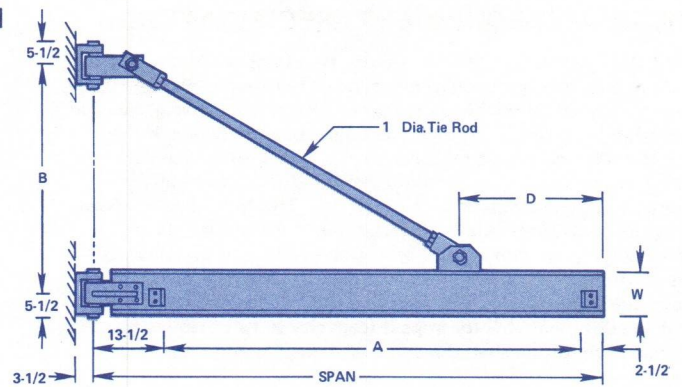
51-3 Issued 10-1-85

# 1/2 to 5 TONS

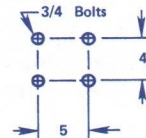
## MOUNTING BOLT PATTERN



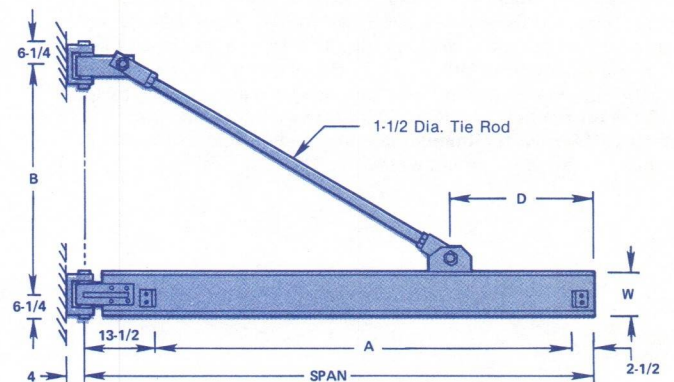
## 1/2 & 1 TON



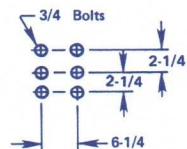
## MOUNTING BOLT PATTERN



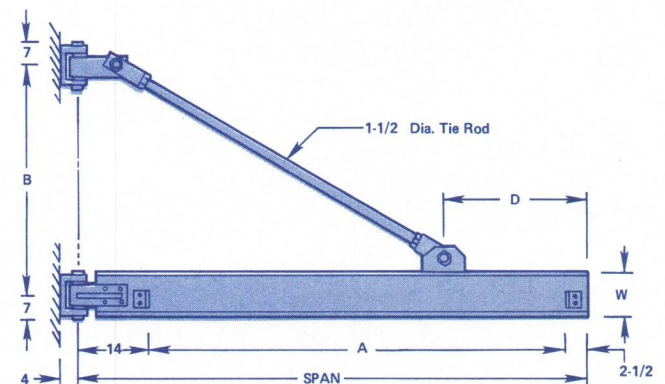
## 2 TON



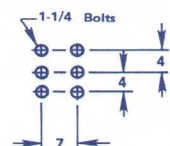
## MOUNTING BOLT PATTERN



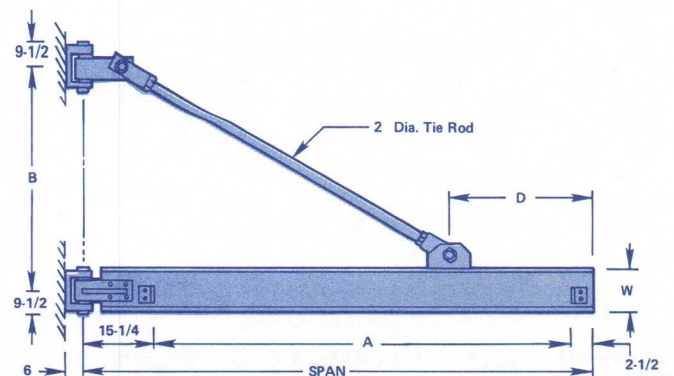
## 3 TON



## MOUNTING BOLT PATTERN



## 5 TON



**1/2 to 5  
TONS**

**SERIES 511 WALL BRACKET  
JIB CRANE**

51-4

**STANDARD EQUIPMENT SPECIFICATIONS**

**DESIGN FACTORS:** Standard capacity ratings shall represent the net rated load at the hook of any type of hoist with the same load rating installed on the jib crane having a hoist trolley weight within the established limits. The jib crane shall be so designed in the load-carrying parts that the calculated static stress in the material based on the rated load, shall not exceed 20% of the published average ultimate strength of the material. This limitation of stress provides a margin to allow for variations in the properties of materials, manufacturing and operation conditions, and design assumptions. Design load for stress calculations shall be based upon the capacity plus 15% for the weight of the hoist and trolley and an additional 25% for impact (capacity X 1.4). However, under no condition shall the crane be loaded beyond its rated capacity.

**S-BEAM:** Boom beam shall be constructed in accord with AISI specifications. Under full load the beam deflection shall not exceed 1/150 of the span. Design load for deflection calculation shall be based upon the capacity plus 15% for the weight of the hoist and trolley (capacity X 1.15). Boom beam shall be selected structural steel member and shall provide level and straight tread surfaces for the hoist trolleys. The beam shall have adequate lateral stiffness with minimum lateral moment of inertia of 1/20 that of the vertical moment of inertia.

**TIE RODS:** The boom beam shall be supported through a single adjustable tension tie rod.

**FITTINGS:** The jib crane fittings shall be constructed with formed and fabricated steel and shall be designed that all load carrying parts will be in double shear. Each fitting shall be so designed and all parts shall be sized so that no bolts will be stressed beyond 10,000 P.S.I. shear stress. No load carrying weld shall be in tension.

**BEARINGS:** The radial load bearings shall be S.A.E. 600 bronze operating hardened bolts with pressure grease lubrication. The thrust bearing shall be olite bronze.

**PAINTING:** The jib crane shall be painted before shipment with a prime and finish coat of a lead-free alkyd air-dry enamel. The prime coat is a buff color with a semi-gloss finish. The finish coat is a yellow oxide with a full gloss finish.

**OPERATING AND MAINTENANCE:** Proper erection instructions, parts list and maintenance instructions will be furnished.

**WARNING:** Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

**WARNING:** Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



**Acco Products Division**

A division of Babcock Industries Inc.

1110 E. Princess Street, York, PA 17403  
Telephone 717 843-1523  
FAX 717 846-5387 Telex 84-0411

12140 Bellflower Blvd., Downey, CA 90241  
Telephone 213 862-8101 Telex 69-8196

A member of the Acco Material Handling Group

**Babcock**

© Acco Babcock Inc. 1987  
Printed in U.S.A.





## Acco Products Division

A division of Babcock Industries Inc.

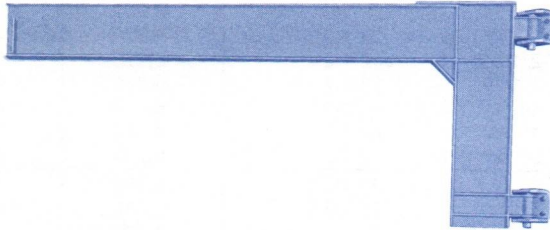
Issued 10-1-85  
Supersedes 3-1-85

51-5

### **SERIES 512**

#### **WALL CANTILEVER JIB CRANES**

**CAPACITIES 1/4 to 5 TONS**  
**SPANS 8 to 20 FEET**



The Acco Series 512 Wall Cantilever Jib Crane is recommended where maximum hoist lift and trolley travel are desired, provided adequate structural support exists. The Series 512 jib crane installs to a nominal minimum clearance of 3 inches to the underside of the lowest overhead obstruction. The jib crane is very desirable as a supplement to a regular traveling crane or monorail track, or for individual use in bays and along the wall or sides of shop areas. The Series 512 rotates 200°, servicing the area within the beam's span.

All fittings are of structural steel components manufactured to avoid reliance upon castings or tension welds. Components are bolted together using standard grade bolts for ease and economy of installation.

#### **CONSTRUCTION FEATURES**

**TOP AND BOTTOM BRACKETS:** The Series 512 jib crane is suspended from two identical brackets consisting of two components: a formed channel which is bolted to the structural support; a fabricated I shaped bracket with two heavy-duty bronze bushings pressed into it and a grease fitting for field lubrication. This bracket is butt-welded to the back of the mast. A heavy duty bronze thrust washer is provided for ease of rotation.

**MAST BOOM:** Standard I beams are used for both the mast and the boom. Stiffeners are placed at critical stress points in the mast, and removable trolley stops are bolted to the boom. Two styles of mast/boom connection are used on 512 Series jib cranes. When the bracket center dimension (B) is 6'0" or less, the connection is welded. If the bracket center dimension is greater than 6'0", a bolted connection is utilized for ease of shipment.

**WARNING:** Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

**WARNING:** Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.

# 1/4 to 5 TONS

## SERIES 512 WALL CANTILEVER JIB CRANES

51-6

Capacity Tons	Span Ft.	Product Number	Bracket Center B Ft.	Beam Size W In.	A	L	Thrust and Pull Lbs.	Net Weight Lbs.
1/4	8	5120001	3	6	6'-3 1/2"	21 1/2"	2,000	250
	10	5120002	3	6	8'-3 1/2"	21 1/2"	2,540	275
	12	5120003	3	6	10'-3 1/2"	21 1/2"	3,100	310
	14	5120004	3	7	12'-2 1/2"	22 1/2"	3,670	375
	16	5120005	3	8	14'-1 1/2"	23 1/2"	4,380	475
	18	5120006	4	8	16'-1 1/2"	23 1/2"	3,900	530
	20	5120007	4	10	17'-11 1/2"	25 1/2"	4,770	750
1/2	8	5120008	3	7	6'-2 1/2"	22 1/2"	3,900	280
	10	5120009	3	7	8'-2 1/2"	22 1/2"	4,920	315
	12	5120010	3	7	10'-2 1/2"	22 1/2"	5,970	350
	14	5120011	4	8	12'-1 1/2"	23 1/2"	5,350	455
	16	5120012	4	10	13'-11 1/2"	25 1/2"	6,410	650
	18	5120013	4	10	15'-11 1/2"	25 1/2"	7,330	700
	20	5120014	6	12	17'-9 1/2"	27 1/2"	5,730	965
1	8	5120015	4	8	6'-1 1/2"	23 1/2"	5,750	350
	10	5120016	5	10	7'-11 1/2"	25 1/2"	5,850	545
	12	5120017	5	10	9'-11 1/2"	25 1/2"	7,090	570
	14	5120018	5	10	11'-11 1/2"	25 1/2"	8,340	620
	16	5120019	6	12	13'-9 1/2"	27 1/2"	8,150	875
	18	5120020	6	15	15'-6 1/2"	30 1/2"	9,560	1205
	20	5120021	6	15	17'-6 1/2"	30 1/2"	10,760	1300
1 1/2	8	5120022	3	10	5'-11 1/2"	26"	11,400	440
	10	5120023	3	10	7'-11 1/2"	26"	14,420	485
	12	5120024	4	12	9'-9 1/2"	28"	13,060	665
	14	5120025	4	12	11'-9 1/2"	28"	15,330	750
	16	5120026	5	12	13'-9 1/2"	28"	14,250	845
	18	5120027	6	18	15'-3 1/2"	34"	13,760	1520
	20	5120028	6	18	17'-3 1/2"	34"	15,430	1630
2	8	5120029	4	12	5'-9 1/2"	28"	11,460	560
	10	5120030	4	12	7'-9 1/2"	28"	14,400	620
	12	5120031	4	15	9'-6 1/2"	31"	17,370	920
	14	5120032	5	15	11'-6 1/2"	31"	16,620	1035
	16	5120033	6	18	13'-3 1/2"	34"	16,100	1410
	18	5120034	6	18	15'-3 1/2"	34"	18,280	1560
	20	5120035	7 1/2	20	17'-1 1/2"	36"	16,680	2030
3	8	5120036	4	15	5'-6 1/2"	31"	17,140	770
	10	5120037	4	15	7'-6 1/2"	31"	21,540	860
	12	5120038	4	15	9'-6 1/2"	31"	25,970	945
	14	5120039	4	18	11'-3 1/2"	34"	29,750	1270
	16	5120040	6 1/2	18	13'-3 1/2"	34"	21,750	1565
	18	5120041	7 1/2	20	15'-1 1/2"	36"	21,570	1940
	20	5120042	9 1/2	24	16'-9 1/2"	40"	19,370	2640
4	8	5120043	4	15	5'-4 1/2"	35"	22,740	985
	10	5120044	6 1/2	18	7'-1 1/2"	38"	17,650	1390
	12	5120045	6 1/2	18	9'-1 1/2"	38"	21,280	1500
	14	5120046	6 1/2	18	11'-1 1/2"	38"	24,950	1610
	16	5120047	7 1/2	20	12'-11 1/2"	40"	25,010	2050
	18	5120048	9 1/2	24	14'-7 1/2"	44"	22,580	2790
	20	5120049	9 1/2	24	16'-7 1/2"	44"	25,260	2630
5	8	5120050	6 1/2	18	5'-1 1/2"	38"	17,500	1280
	10	5120051	6 1/2	18	7'-1 1/2"	38"	21,960	1385
	12	5120052	6 1/2	20	8'-11 1/2"	40"	26,450	1720
	14	5120053	7 1/2	20	10'-11 1/2"	40"	26,990	1920
	16	5120054	9 1/2	24	12'-7 1/2"	44"	24,660	2365
	18	5120055	9 1/2	24	14'-7 1/2"	44"	27,890	2500
	20	5120056	9 1/2	24	16'-7 1/2"	44"	31,160	2630

All dimensions shown in inches.

See page 51-41 for modification and accessories.



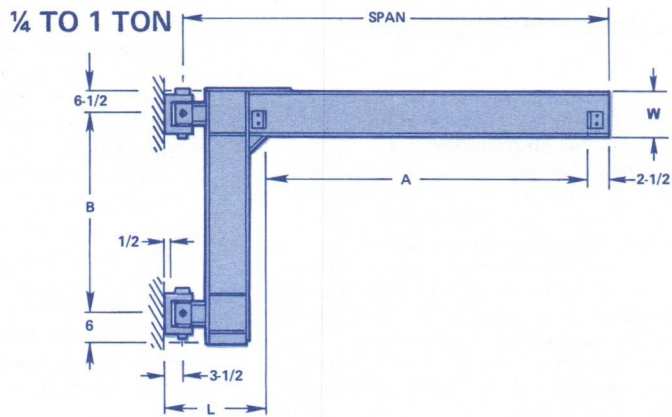
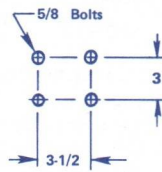


# **SERIES 512 WALL CANTILEVER JIB CRANES**

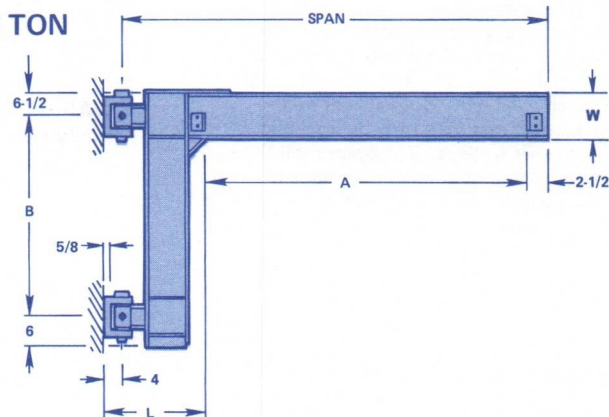
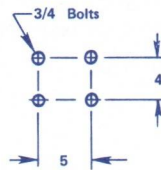
51-7 Issued 10-1-85

**1/4 to 5  
TONS**

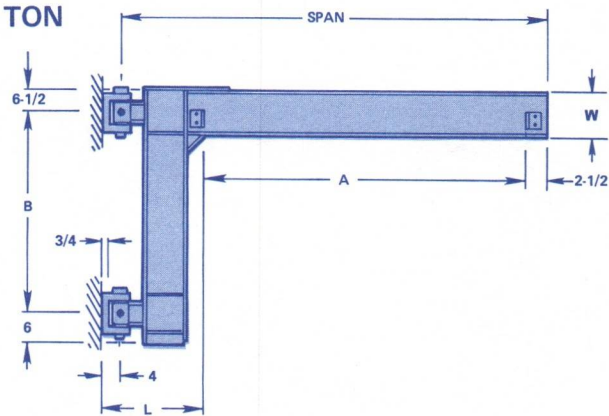
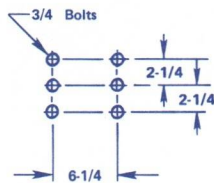
## **MOUNTING BOLT PATTERN**



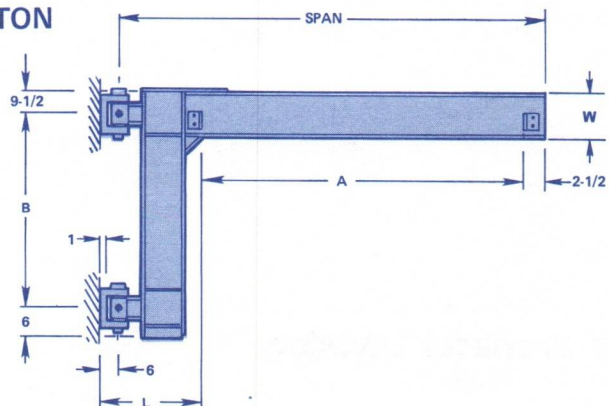
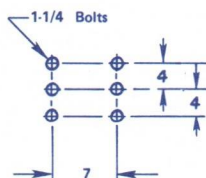
## **2 TON**



## **3 TON**



## **5 TON**



**1/4 to 5  
TONS**

**SERIES 512 WALL CANTILEVER  
JIB CRANE**

51-8

**STANDARD EQUIPMENT SPECIFICATIONS**

**DESIGN FACTORS:** Standard capacity ratings shall represent the net rated load at the hook of any type of hoist with the same load rating installed on the jib crane having a hoist trolley weight within the established limits. The jib crane shall be so designed in the load-carrying parts that the calculated static stress in the material based on the rated load, shall not exceed 20% of the published average ultimate strength of the material. This limitation of stress provides a margin to allow for variations in the properties of materials, manufacturing and operation conditions, and design assumptions. Design load for stress calculations shall be based upon the capacity plus 15% for the weight of the hoist and trolley and an additional 25% for impact (capacity X 1.4). However, under no condition shall the crane be loaded beyond its rated capacity.

**S-BEAM:** Boom beam shall be constructed in accord with AISC specifications. Under full load the beam deflection shall not exceed 1/150 of the span. Design load for deflection calculation shall be based upon the capacity plus 15% for the weight of the hoist and trolley (capacity X 1.15). Boom beam shall be selected structural steel member and shall provide level and straight tread surfaces for the hoist trolleys. The beam shall have adequate lateral stiffness with minimum lateral moment of inertia of 1/20 that of the vertical moment of inertia.

**FITTINGS:** The jib crane fittings shall be constructed with formed and fabricated steel and shall be designed that all load carrying parts will be in double shear. Each fitting shall be so designed and all parts shall be sized so that no bolts will be stressed beyond 10,000 P.S.I. shear stress.

**BEARINGS:** The radial load bearings shall be S.A.E. 600 bronze operating hardened bolts with pressure grease lubrication. The thrust bearing shall be olite bronze.

**PAINTING:** The jib crane shall be painted before shipment with a prime and finish coat of a lead-free alkyd air-dry enamel. The prime coat is a buff color with a semi-gloss finish. The finish coat is a yellow oxide with a full gloss finish.

**OPERATING AND MAINTENANCE:** Proper erection instructions, parts list and maintenance instructions will be furnished with the crane.

**WARNING:** Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

**WARNING:** Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



**Acco Products Division**

A division of Babcock Industries Inc.

1110 E. Princess Street, York, PA 17403  
Telephone 717 843-1523  
FAX 717 846-5387 Telex 84-0411

A member of the Acco Material Handling Group

12140 Bellflower Blvd., Downey, CA 90241  
Telephone 213 862-8101 Telex 69-8196

**Babcock**

© Acco Babcock Inc. 1987  
Printed in U.S.A.





## Acco Products Division

A division of Babcock Industries Inc.

Issued 10-1-85  
Supersedes 3-1-85

51-9

### **SERIES 513** **360°BASE MOUNTED** **FREE STANDING JIB CRANES** CAPACITIES 1/4 to 5 TONS SPANS 8 to 20 FEET



The Acco Series 513 Base Mounted Jib Crane is designed for use with hoists in applications where defined area coverage is required or as a supplement to overhead traveling cranes. The free standing models offer up to 360° continuous rotation without being attached to the building structure. The base mounted pillar jib crane is rigidly supported by a base plate with reinforced gussets which must be bolted to suitable reinforced concrete floor. The jib crane is designed with lower trunnion roller bearings plus a thrust bearing at the top of the pillar. They are designed to meet maximum radial and thrust loads. The lower trunnion roller assembly is adjustable for ease of leveling the boom during field installation.

The head assembly has a retaining pin above the bearing assembly to protect against incidental dislodgement of the head from the mast. The assembly can be installed independently of the boom. This minimizes the necessary overhead room required for installation.

The jib crane, when combined with an electric hoist, can be electrified by means of a commutator enclosed in the hood and festoon electrification arrangement suitable for NEMA 1 indoor service or NEMA 3R outdoor service.

### **CONSTRUCTION FEATURES**

**HEAD ASSEMBLY:** The design of the Series 513 head assembly as an independent assembly which rotates about the pin in the top of the mast pipe, allows installation of the head separate from the boom, thus decreasing required overhead clearance during installation. A structural channel joins the two sides of the head assembly in the rear of the head and resists dislodgement of the head in the event the boom is lifted.

**TOP PIVOT BEARING:** Connection of the head assembly to the mast pipe is made via the top pivot assembly. The top pivot assembly incorporates a bearing plate connecting the two sides of the head assembly approximately 8 inches below the top of the head. The plate supports a Timken tapered roller bearing to provide the greatest ease of rotation. A retaining pin is provided through the pivot pin above the bearing plate to resist dislodgement of the head.

Recessing the pivot assembly within the head assembly reduces the clearance required for installation and allows the addition of a bottom entry collector assembly for electrification from 360° rotation either initially or as a simple field modification. The collector assembly is thus completely enclosed within the head assembly.

**TRUNNION ROLLER ASSEMBLY:** This assembly provides a second bearing point within the head assembly which transmits the moment exerted on the boom to the mast pipe, while providing for ease of rotation. Two capacities of trunnion roller assemblies are utilized in Free-Standing Jib Cranes. Type 1 consists of a single formed channel and two rollers and is used on all cranes up to and including 2 tons of capacity. Type 2 utilizes two sets of articulated rollers mounted to the formed channel. The mounting bracket assembly is connected to the head via threaded rod for easy level adjustment of the boom during installation. Grease fittings on the bearings allow for simple field lubrication. Series 513 Jib Crane masts are constructed from structural pipe.

**BOOM:** Boom is constructed from standard S-Beams, reinforced where necessary with channel capping for added strength and lateral stability. A back plate welded to the boom, and an angle welded to the front of the head assembly serve as connecting points for the bolted connection of boom and head assembly. This allows boom and head assembly to be shipped and installed separately.

**BASE PLATE:** A hexagonal base plate is welded to the base of the mast pipe and reinforced with six gusset plates equally spaced about the circumference of the mast. The base plate must be mounted via anchor bolts to a structurally adequate, reinforced foundation.



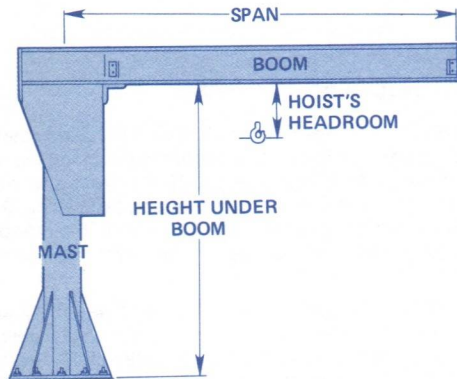
# 1/4 to 5 TONS

## SERIES 513 360° BASE MOUNTED FREE STANDING JIB CRANES

51-10

### HOW TO SPECIFY ACCO SERIES 513 BASE MOUNTED FREE STANDING JIB CRANE.

1. Determine the capacity, span of boom, and height under boom required.



2. Specify proper product number in regards to jib crane capacity, span, and under boom height found in following pages.
3. Specify diameter of the mast. Series 513 Jib Cranes are designed with a standard range of mast diameters. The first number under product number designates mast's diameter (dimension E). By using this number, the bolt circle diameter, bolt pattern, the number and size of bolts, and the size and shape of the base plate used for each particular size mast may be found in the following chart.

STANDARD MAST DATA									
Diameter of Mast E in.	Dimensions						Anchor Bolt Pattern		
	G1 in.	G2 in.	J in.	K in.	H1 in.	H2 in.	Quantity	D in.	Q in.
8	10	20	10 3/8	10	46 3/4	4	6	1	24
12	8 1/2	20	12 7/8	12 1/2	71 3/4	6	6	1 1/4	24
14	11	22	15 3/8	15	72	8	6	1 1/4	30
16	13	26	17 3/8	17	72	8	12	1 1/4	36
18	15	30	17 3/8	17	72	9	12	1 1/4	42
20	17	34	17 7/8	17 1/2	72	10	12	1 1/4	48
24	18	36	22 7/8	22 1/2	72	12	12	1 1/4	54
30	18	36	25 3/8	25	84	12	12	1 1/4	60

4. Specify height of the boom. The second number under the product number designates depth of the boom, W. By using this number, the size and flange width may be found in following chart.

STANDARD BOOM DATA		
Boom Height W	Beam Size	Flange Width in.
6	6S12.5#	3 3/8
7	7S15.3#	3 5/8
8	8S18.4#	4
10	10S25.4#	4 5/8
12	12S31.8#	5
15	15S42.9#	5 1/2
18	18S54.7#	6
20	20S66 #	6 1/4
24	24S80 #	7

5. Specify foundation requirements. A structurally reinforced foundation is required to support the mounting of the free standing jib crane. When the load is applied to the jib crane, this puts a moment on the foundation which must be of sufficient size to resist the compression and tension forces. See the following chart for size and location requirement for proper installation.

STANDARD FOOTING REQUIREMENTS			
Capacity Tons	Span ft.	Footing Size	
		Width ft. M	Depth ft. L
1/4	8-13	4	3
	14-20	4	4
1/2	8-12	4	4
	13-20	5	4
1	8-10	5	4
	11-15	6	4
	16-20	7	4
1 1/2	8-12	6	4
	13-15	7	4
	16-20	8	4
2	8-11	6	4
	12-15	7	4
	16-20	8	4
3	8-16	8	4
	17-20	9	4
4	8-13	8	4
	14-20	10	4
5	8-14	9	4
	15-18	10	4
	19-20	10	5

Jib crane foundation requirements are based on a soil pressure of 2500 # per square foot. Concrete recommended for jib crane foundation is 3000 # per square inch of compressive concrete.

6. Select desired Acco hoist.  
Section 10 for Hand Operated Hoist, 1/2 to 5 tons  
Section 20 for *Wright-Way*® Electric Hoist, 1/4 to 2 tons  
Section 21 for *Wright-Way* Air Operated Hoist, 1/4 to 2 tons  
Section 30 for *Work-Rated*® Electric Hoist, 1 to 5 tons
7. Specify other modifications and accessories. See page 51-41 for further specifications.

**WARNING:** Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

**WARNING:** Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.

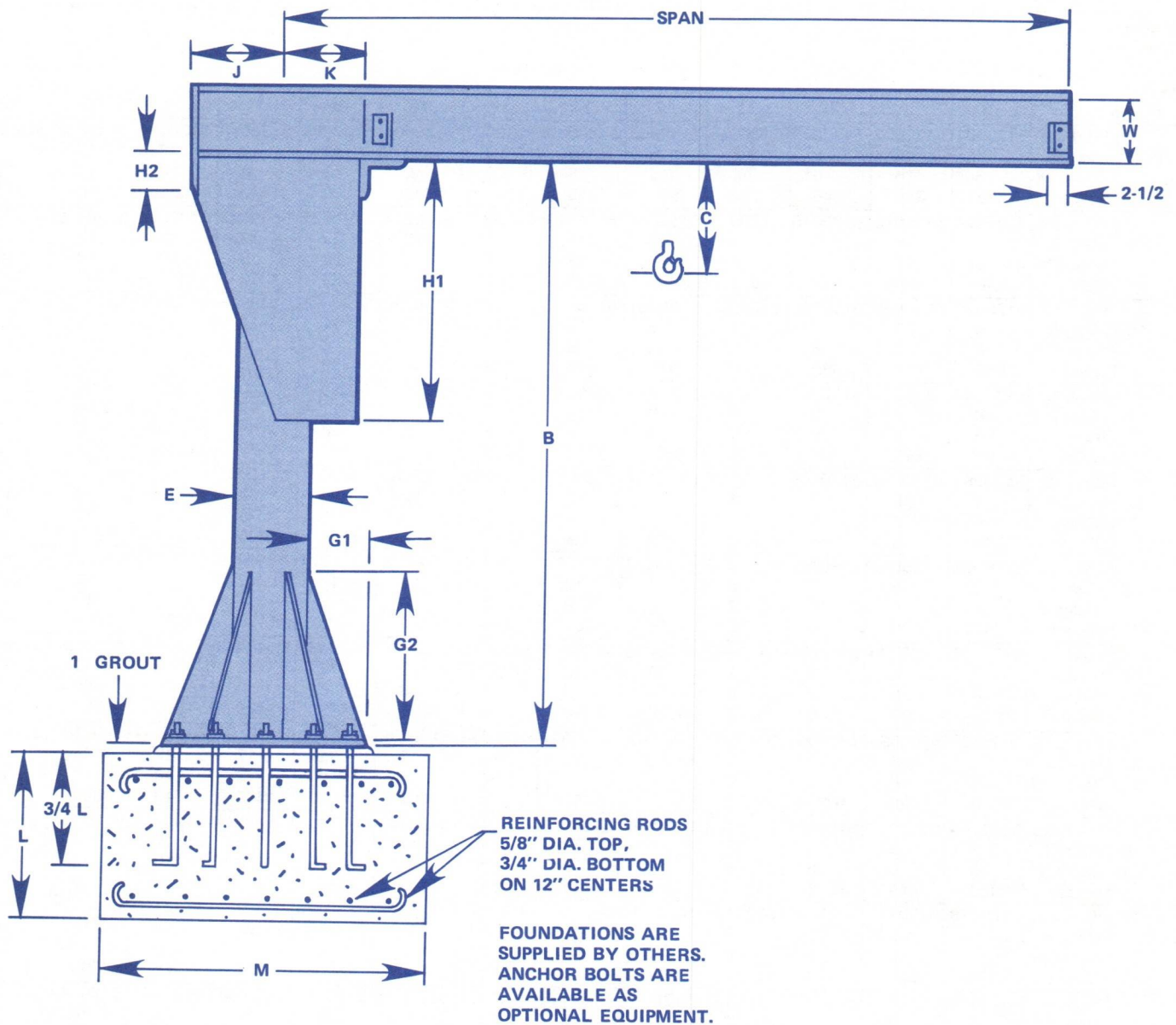




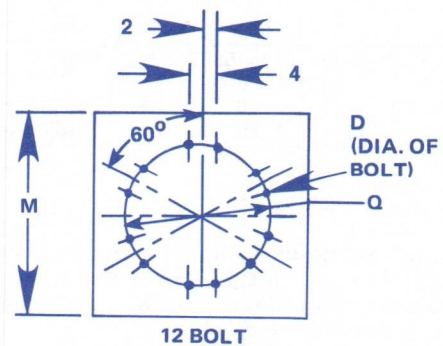
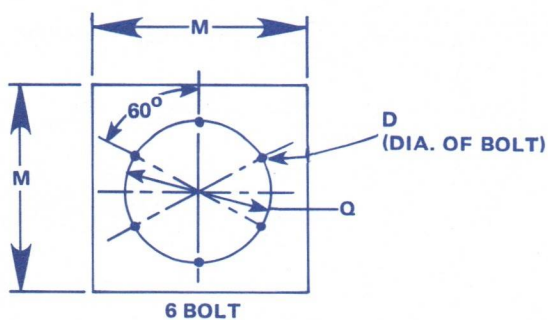
**SERIES 513 360° BASE MOUNTED  
FREE STANDING JIB CRANES**

51-11 Issued 10-1-85

**1/4 to 5  
TONS**



**BOLT PATTERN**



All dimensions shown in inches.



**1/4  
TON****SERIES 513 360° BASE MOUNTED  
FREE STANDING JIB CRANES**

51-12

Height Under Boom in ft. B		SPAN in feet A												
		8	9	10	11	12	13	14	15	16	17	18	19	20
8	Prod. No.	5130001	5130002	5130003	5130004	5130005	5130006	5130007	5130008	5130009	5130010	5130011	5130012	5130013
	Mast, E	8	8	8	8	8	12	12	12	12	12	12	12	12
	Boom, W	6	6	6	6	6	8	8	8	8	8	10	10	10
	Weight	815	830	845	850	860	1205	1220	1240	1260	1280	1420	1450	1480
9	Prod. No.	5130014	5130015	5130016	5130017	5130018	5130019	5130020	5130021	5130022	5130023	5130024	5130025	5130026
	Mast, E	8	8	8	8	8	12	12	12	12	12	12	12	12
	Boom, W	6	6	6	6	6	8	8	8	8	8	10	10	10
	Weight	840	855	865	875	885	1235	1255	1275	1295	1310	1455	1485	1510
10	Prod. No.	5130027	5130028	5130029	5130030	5130031	5130032	5130033	5130034	5130035	5130036	5130037	5130038	5130039
	Mast, E	8	8	8	8	8	12	12	12	12	12	12	12	12
	Boom, W	6	6	6	6	6	8	8	8	8	8	10	10	10
	Weight	865	885	895	905	915	1265	1285	1300	1320	1340	1485	1510	1540
11	Prod. No.	5130040	5130041	5130042	5130043	5130044	5130045	5130046	5130047	5130048	5130049	5130050	5130051	5130052
	Mast, E	8	8	8	8	8	12	12	12	12	12	12	12	12
	Boom, W	6	6	6	6	6	8	8	8	8	8	10	10	10
	Weight	895	915	925	935	940	1300	1315	1335	1355	1375	1515	1545	1575
12	Prod. No.	5130053	5130054	5130055	5130056	5130057	5130058	5130059	5130060	5130061	5130062	5130063	5130064	5130065
	Mast, E	8	8	8	8	12	12	12	12	12	12	12	12	12
	Boom, W	6	6	6	6	6	8	8	8	8	8	10	10	10
	Weight	920	935	945	955	1220	1325	1345	1365	1385	1405	1545	1575	1600
13	Prod. No.	5130066	5130067	5130068	5130069	5130070	5130071	5130072	5130073	5130074	5130075	5130076	5130077	5130078
	Mast, E	8	8	8	8	12	12	12	12	12	12	12	12	14
	Boom, W	6	6	6	6	6	8	8	8	8	8	10	10	10
	Weight	945	965	975	985	1255	1360	1380	1400	1420	1435	1580	1605	1950
14	Prod. No.	5130079	5130080	5130081	5130082	5130083	5130084	5130085	5130086	5130087	5130088	5130089	5130090	5130091
	Mast, E	8	8	8	12	12	12	12	12	12	12	12	12	14
	Boom, W	6	6	6	6	6	8	8	8	8	8	10	10	10
	Weight	970	990	1000	1010	1285	1390	1410	1425	1445	1465	1605	1635	1990
15	Prod. No.	5130092	5130093	5130094	5130095	5130096	5130097	5130098	5130099	5130100	5130101	5130102	5130103	5130104
	Mast, E	8	8	8	12	12	12	12	12	12	12	12	14	14
	Boom, W	6	6	6	6	6	8	8	8	8	8	10	10	10
	Weight	1000	1020	1030	1040	1315	1420	1440	1460	1480	1500	1640	2005	2035
16	Prod. No.	5130105	5130106	5130107	5130108	5130109	5130110	5130111	5130112	5130113	5130114	5130115	5130116	5130117
	Mast, E	8	8	8	12	12	12	12	12	12	12	12	14	14
	Boom, W	6	6	6	6	6	8	8	8	8	8	10	10	10
	Weight	1030	1045	1055	1340	1350	1455	1475	1495	1510	1530	1675	2050	2075
17	Prod. No.	5130118	5130119	5130120	5130121	5130122	5130123	5130124	5130125	5130126	5130127	5130128	5130129	5130130
	Mast, E	8	8	8	12	12	12	12	12	12	14	14	14	14
	Boom, W	6	6	6	6	6	8	8	8	8	8	10	10	10
	Weight	1050	1070	1080	1370	1380	1485	1500	1520	1540	1920	2065	2090	2120
18	Prod. No.	5130131	5130132	5130133	5130134	5130135	5130136	5130137	5130138	5130139	5130140	5130141	5130142	5130143
	Mast, E	8	8	12	12	12	12	12	12	14	14	14	14	14
	Boom, W	6	6	6	6	6	8	8	8	8	8	10	10	10
	Weight	1080	1100	1365	1400	1410	1515	1535	1555	1950	1970	2110	2140	2170
19	Prod. No.	5130144	5130145	5130146	5130147	5130148	5130149	5130150	5130151	5130152	5130153	5130154	5130155	5130156
	Mast, E	8	8	12	12	12	12	12	14	14	14	14	14	16
	Boom, W	6	6	6	6	6	8	8	8	8	8	10	10	10
	Weight	1115	1025	1415	1430	1440	1545	1565	1975	1990	2010	2150	2180	2855
20	Prod. No.	5130157	5130158	5130159	5130160	5130161	5130162	5130163	5130164	5130165	5130166	5130167	5130168	5130169
	Mast, E	8	8	12	12	12	12	14	14	14	14	14	14	16
	Boom, W	6	6	6	6	6	8	8	8	8	8	10	10	10
	Weight	1130	1150	1450	1465	1475	1580	1995	2015	2035	2055	2195	2225	2920

All dimensions shown in inches.

**WARNING:** Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

**WARNING:** Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.





# SERIES 513 360° BASE MOUNTED FREE STANDING JIB CRANES

51-13

Issued 10-1-85

# 1/2 TON

Height Under Boom in ft. B		SPAN in feet A												
		8	9	10	11	12	13	14	15	16	17	18	19	20
8	Prod. No.	5130170	5130171	5130172	5130173	5130174	5130175	5130176	5130177	5130178	5130179	5130180	5130181	5130182
	Mast, E	8	8	8	12	12	12	12	12	12	12	12	12	12
	Boom, W	6	6	6	7	7	8	8	10	10	10	10	12	12
	Weight	815	830	840	880	1140	1205	1220	1355	1380	1400	1420	1580	1640
9	Prod. No.	5130183	5130184	5130185	5130186	5130187	5130188	5130189	5130190	5130191	5130192	5130193	5130194	5130195
	Mast, E	8	8	8	12	12	12	12	12	12	12	12	14	14
	Boom, W	6	6	6	7	7	8	8	10	10	10	10	12	12
	Weight	840	855	865	910	1170	1235	1255	1385	1410	1435	1460	1880	1905
10	Prod. No.	5130196	5130197	5130198	5130199	5130200	5130201	5130202	5130203	5130204	5130205	5130206	5130207	5130208
	Mast, E	8	8	8	12	12	12	12	12	12	12	12	14	14
	Boom, W	6	6	6	7	7	8	8	10	10	10	10	12	12
	Weight	865	885	895	1175	1205	1270	1285	1415	1440	1465	1490	1920	1955
11	Prod. No.	5130209	5130210	5130211	5130212	5130213	5130214	5130215	5130216	5130217	5130218	5130219	5130220	5130221
	Mast, E	8	8	12	12	12	12	12	12	12	12	14	14	14
	Boom, W	6	6	6	7	7	8	8	10	10	10	10	12	12
	Weight	895	915	1170	1210	1235	1300	1315	1450	1475	1500	1805	1965	1995
12	Prod. No.	5130222	5130223	5130224	5130225	5130226	5130227	5130228	5130229	5130230	5130231	5130232	5130233	5130234
	Mast, E	8	8	12	12	12	12	12	12	12	12	14	14	14
	Boom, W	6	6	6	7	7	8	12	12	12	12	15	15	15
	Weight	920	935	1200	1235	1265	1330	1560	1590	1615	1645	2185	2235	2280
13	Prod. No.	5130235	5130236	5130237	5130238	5130239	5130240	5130241	5130242	5130243	5130244	5130245	5130246	5130247
	Mast, E	8	8	12	12	12	12	12	12	12	14	14	14	14
	Boom, W	6	6	6	7	7	8	12	12	12	12	15	15	15
	Weight	945	965	1235	1270	1300	1360	1590	1615	1645	1995	2235	2280	2330
14	Prod. No.	5130248	5130249	5130250	5130251	5130252	5130253	5130254	5130255	5130256	5130257	5130258	5130259	5130260
	Mast, E	8	8	12	12	12	12	12	12	12	14	14	14	14
	Boom, W	6	6	6	7	10	10	12	12	12	12	15	15	15
	Weight	970	990	1265	1295	1470	1500	1620	1650	1680	2040	2275	2325	2370
15	Prod. No.	5130261	5130262	5130263	5130264	5130265	5130266	5130267	5130268	5130269	5130270	5130271	5130272	5130273
	Mast, E	8	12	12	12	12	12	12	12	14	14	14	14	14
	Boom, W	6	6	6	7	10	10	12	12	12	12	15	15	15
	Weight	1000	1280	1300	1325	1500	1525	1650	1685	2055	2080	2320	2365	2415
16	Prod. No.	5130274	5130275	5130276	5130277	5130278	5130279	5130280	5130281	5130282	5130283	5130284	5130285	5130286
	Mast, E	8	12	12	12	12	12	12	12	14	14	14	14	16
	Boom, W	6	6	6	7	10	10	12	12	12	12	15	15	15
	Weight	1030	1310	1325	1360	1530	1560	1685	1710	2095	2125	2360	2410	3060
17	Prod. No.	5130287	5130288	5130289	5130290	5130291	5130292	5130293	5130294	5130295	5130296	5130297	5130298	5130299
	Mast, E	8	12	12	12	12	12	12	14	14	14	14	16	16
	Boom, W	6	6	6	7	10	10	12	12	12	12	15	15	15
	Weight	1050	1340	1355	1395	1560	1590	1710	2110	2140	2170	2405	3080	3116
18	Prod. No.	5130300	5130301	5130302	5130303	5130304	5130305	5130306	5130307	5130308	5130309	5130310	5130311	5130312
	Mast, E	8	12	12	12	12	12	14	14	14	16	16	16	16
	Boom, W	6	6	6	7	10	10	12	12	12	12	15	15	15
	Weight	1080	1370	1390	1420	1600	1620	2120	2160	2185	2855	3095	3140	3180
19	Prod. No.	5130313	5130314	5130315	5130316	5130317	5130318	5130319	5130320	5130321	5130322	5130323	5130324	5130325
	Mast, E	8	12	12	12	12	14	14	14	14	16	16	16	16
	Boom, W	6	6	6	7	10	10	12	12	12	12	15	15	15
	Weight	1105	1400	1420	1450	1620	2050	2160	2200	2230	2915	3150	3200	3235
20	Prod. No.	5130326	5130327	5130328	5130329	5130330	5130331	5130332	5130333	5130334	5130335	5130336	5130337	5130338
	Mast, E	8	12	12	12	14	14	14	14	14	16	16	16	16
	Boom, W	6	6	6	7	10	10	12	12	12	12	15	15	15
	Weight	1130	1430	1450	1485	2060	2090	2205	2245	2270	2975	3210	3260	3300

All dimensions shown in inches.

**WARNING:** Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

**WARNING:** Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



# 1 TON

## SERIES 513 360° BASE MOUNTED FREE STANDING JIB CRANES

51-14

Height Under Boom in ft. B		SPAN in feet A												
		8	9	10	11	12	13	14	15	16	17	18	19	20
8	Prod. No.	5130339	5130340	5130341	5130342	5130343	5130344	5130345	5130346	5130347	5130348	5130349	5130350	5130351
	Mast, E	12	12	12	12	12	14	14	14	14	14	14	14	14
	Boom, W	7	8	8	8	10	12	12	12	12	12	15	15	15
	Weight	1025	1075	1095	1125	1215	1560	1590	1615	1645	1670	1900	1935	1975
9	Prod. No.	5130352	5130353	5130354	5130355	5130356	5130357	5130358	5130359	5130360	5130361	5130362	5130363	5130364
	Mast, E	12	12	12	12	12	14	14	14	14	14	14	14	14
	Boom, W	7	8	8	8	10	12	12	12	12	12	15	15	15
	Weight	1055	1110	1120	1140	1245	1605	1630	1660	1690	1715	1940	1980	2020
10	Prod. No.	5130365	5130366	5130367	5130368	5130369	5130370	5130371	5130372	5130373	5130374	5130375	5130376	5130377
	Mast, E	12	12	12	12	12	14	14	14	14	14	14	14	14
	Boom, W	7	8	8	8	10	12	12	12	12	12	15	15	15
	Weight	1085	1135	1155	1165	1275	1645	1670	1700	1730	1755	1985	2020	2060
11	Prod. No.	5130378	5130379	5130380	5130381	5130382	5130383	5130384	5130385	5130386	5130387	5130388	5130389	5130390
	Mast, E	12	12	12	12	12	14	14	14	14	16	16	16	16
	Boom, W	7	8	8	8	10	12	12	12	12	12	15	15	15
	Weight	1115	1165	1180	1200	1300	1685	1715	1745	1770	2285	2505	2550	2585
12	Prod. No.	5130391	5130392	5130393	5130394	5130395	5130396	5130397	5130398	5130399	5130400	5130401	5130402	5130403
	Mast, E	12	12	12	14	14	14	14	14	16	16	16	16	16
	Boom, W	7	8	8	8	10	12	12	12	12	12	15	15	15
	Weight	1145	1195	1210	1495	1620	1725	1755	1785	2315	2340	2565	2600	2640
13	Prod. No.	5130404	5130405	5130406	5130407	5130408	5130409	5130410	5130411	5130412	5130413	5130414	5130415	5130416
	Mast, E	12	12	12	14	14	14	14	14	16	16	16	16	16
	Boom, W	7	8	8	8	10	12	12	12	12	12	15	15	15
	Weight	1170	1225	1245	1555	1660	1765	1795	1825	2375	2400	2620	2660	2700
14	Prod. No.	5130417	5130418	5130419	5130420	5130421	5130422	5130423	5130424	5130425	5130426	5130427	5130428	5130429
	Mast, E	12	12	12	14	14	14	14	16	16	16	18	18	18
	Boom, W	7	8	8	8	10	12	12	12	12	12	15	15	15
	Weight	1205	1250	1270	1595	1695	1805	1840	2400	2430	2460	2995	3030	3070
15	Prod. No.	5130430	5130431	5130432	5130433	5130434	5130435	5130436	5130437	5130438	5130439	5130440	5130441	5130442
	Mast, E	12	12	12	14	14	16	16	16	16	18	18	18	18
	Boom, W	7	8	8	8	10	10	12	12	12	12	15	15	15
	Weight	1230	1285	1300	1640	1740	2320	2425	2455	2450	2825	3050	3090	3135
16	Prod. No.	5130443	5130444	5130445	5130446	5130447	5130448	5130449	5130450	5130451	5130452	5130453	5130454	5130455
	Mast, E	12	12	12	14	14	16	16	16	18	18	18	18	18
	Boom, W	7	8	8	8	10	10	12	12	12	12	15	15	15
	Weight	1260	1315	1335	1685	1785	2380	2485	2510	2865	2890	3115	3050	3195
17	Prod. No.	5130456	5130457	5130458	5130459	5130460	5130461	5130462	5130463	5130464	5130465	5130466	5130467	5130468
	Mast, E	12	12	14	16	16	16	16	16	18	18	18	18	18
	Boom, W	7	8	8	8	10	10	12	12	12	12	15	15	15
	Weight	1295	1345	1705	2310	2410	2435	2545	2570	2925	2955	3180	3215	3260
18	Prod. No.	5130469	5130470	5130471	5130472	5130473	5130474	5130475	5130476	5130477	5130478	5130479	5130480	5130481
	Mast, E	12	12	14	16	16	16	16	16	18	18	18	18	18
	Boom, W	7	8	8	8	10	10	12	12	12	12	15	15	15
	Weight	1320	1375	1745	2365	2465	2490	2600	2625	2990	3015	3240	3275	3320
19	Prod. No.	5130482	5130483	5130484	5130485	5130486	5130487	5130488	5130489	5130490	5130491	5130492	5130493	5130494
	Mast, E	12	12	14	16	16	16	16	18	18	20	20	20	20
	Boom, W	7	8	8	8	10	10	12	12	12	15	15	15	15
	Weight	1350	1405	1790	2420	2520	2550	2655	3025	3050	4000	4040	4095	4120
20	Prod. No.	5130495	5130496	5130497	5130498	5130499	5130500	5130501	5130502	5130503	5130504	5130505	5130506	5130507
	Mast, E	12	12	14	16	16	18	18	18	18	20	20	20	20
	Boom, W	7	8	8	8	10	10	12	12	12	15	15	15	15
	Weight	1380	1430	1830	2475	2540	2745	3060	3090	3115	4095	4130	4170	4265

All dimension shown in inches.

**WARNING:** Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

**WARNING:** Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.





# SERIES 513 360° BASE MOUNTED FREE STANDING JIB CRANES

51-15 Issued 10-1-85

# 1-1/2 TON

Height Under Boom in ft. B		SPAN in feet A												
		8	9	10	11	12	13	14	15	16	17	18	19	20
8	Prod. No.	5130508	5130509	5130510	5130511	5130512	5130513	5130514	5130515	5130516	5130517	5130518	5130519	5130520
	Mast, E	12	12	12	14	14	14	14	14	16	16	16	16	16
	Boom, W	10	10	10	10	10	12	12	15	15	15	18	18	18
	Weight	1190	1205	1230	1505	1530	1650	1680	1900	2405	2450	2720	2770	2820
9	Prod. No.	5130521	5130522	5130523	5130524	5130525	5130526	5130527	5130528	5130529	5130530	5130531	5130532	5130533
	Mast, E	12	12	12	14	14	14	14	14	16	16	16	16	16
	Boom, W	10	10	10	10	10	12	12	15	15	15	18	18	18
	Weight	1215	1245	1265	1550	1580	1690	1720	1938	2465	2510	2780	2830	2885
10	Prod. No.	5130534	5130535	5130536	5130537	5130538	5130539	5130540	5130541	5130542	5130543	5130544	5130545	5130546
	Mast, E	12	12	12	14	14	14	14	14	16	16	16	16	16
	Boom, W	10	10	10	10	10	12	12	15	15	15	18	18	18
	Weight	1245	1270	1295	1600	1620	1735	1765	1980	2530	2565	2840	2895	2945
11	Prod. No.	5130547	5130548	5130549	5130550	5130551	5130552	5130553	5130554	5130555	5130556	5130557	5130558	5130559
	Mast, E	12	12	12	14	14	14	16	16	16	16	16	16	16
	Boom, W	10	10	10	10	10	12	12	15	15	15	18	18	18
	Weight	1280	1300	1325	1640	1665	1785	2330	2545	2585	2630	2900	2950	3005
12	Prod. No.	5130560	5130561	5130562	5130563	5130564	5130565	5130566	5130567	5130568	5130569	5130570	5130571	5130572
	Mast, E	12	12	12	14	16	16	16	16	16	16	16	16	16
	Boom, W	10	10	10	10	10	12	12	15	15	15	18	18	18
	Weight	1310	1335	1360	1680	2250	2365	2390	2605	2645	2685	2960	3015	3065
13	Prod. No.	5130573	5130574	5130575	5130576	5130577	5130578	5130579	5130580	5130581	5130582	5130583	5130584	5130585
	Mast, E	12	12	12	14	16	16	16	16	16	16	16	16	16
	Boom, W	10	10	10	10	10	12	12	15	15	15	18	18	18
	Weight	1340	1365	1390	1725	2315	2430	2450	2665	2715	2745	3020	3070	3440
14	Prod. No.	5130586	5130587	5130588	5130589	5130590	5130591	5130592	5130593	5130594	5130595	5130596	5130597	5130598
	Mast, E	12	12	14	14	16	16	16	16	16	16	18	18	18
	Boom, W	10	10	10	10	10	12	12	15	15	15	18	18	18
	Weight	1375	1400	1420	1770	2370	2485	2510	2725	2770	2810	3405	3455	3505
15	Prod. No.	5130599	5130600	5130601	5130602	5130603	5130604	5130605	5130606	5130607	5130608	5130609	5130610	5130611
	Mast, E	12	12	14	14	16	16	16	16	16	18	18	18	20
	Boom, W	10	10	10	10	10	12	12	15	15	15	18	18	18
	Weight	1400	1425	1790	1815	2435	2546	2565	2785	2835	3210	3475	3525	4205
16	Prod. No.	5130612	5130613	5130614	5130615	5130616	5130617	5130618	5130619	5130620	5130621	5130622	5130623	5130624
	Mast, E	12	12	14	16	16	16	18	18	18	18	18	18	20
	Boom, W	10	10	10	10	10	12	12	15	15	15	18	18	14
	Weight	1435	1460	1835	2455	2490	2610	2985	3195	3235	3275	3540	3590	4305
17	Prod. No.	5130625	5130626	5130627	5130628	5130629	5130630	5130631	5130632	5130633	5130634	5130635	5130636	5130637
	Mast, E	12	12	14	16	18	18	18	18	18	18	18	18	20
	Boom, W	10	10	10	10	10	12	12	15	15	15	18	18	18
	Weight	1470	1495	1880	2520	2905	3020	3050	3260	3300	3345	3605	3680	4405
18	Prod. No.	5130638	5130639	5130640	5130641	5130642	5130643	5130644	5130645	5130646	5130647	5130648	5130649	5130650
	Mast, E	12	14	14	16	18	18	18	18	18	18	18	20	20
	Boom, W	10	10	10	10	10	12	12	15	15	15	18	18	18
	Weight	1500	1895	1920	2575	2970	3090	3120	3330	3370	3410	3675	4445	4505
19	Prod. No.	5130651	5130652	5130653	5130654	5130655	5130656	5130657	5130658	5130659	5130660	5130661	5130662	5130663
	Mast, E	12	14	14	16	18	18	18	18	20	20	20	20	24
	Boom, W	10	10	10	10	10	12	12	15	15	15	18	18	18
	Weight	1530	1940	1960	2640	3040	3155	3185	3400	4195	4235	4510	4545	5305
20	Prod. No.	5130664	5130665	5130666	5130667	5130668	5130669	5130670	5130671	5130672	5130673	5130674	5130675	5130676
	Mast, E	12	14	16	16	18	18	18	20	20	20	20	20	24
	Boom, W	10	10	10	10	10	12	12	15	15	15	18	18	18
	Weight	1560	1980	2600	2700	3110	3220	3250	4255	4295	4335	4610	4645	5425

All dimensions shown in inches.

**WARNING:** Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

**WARNING:** Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



# 2 TON

## SERIES 513 360° BASE MOUNTED FREE STANDING JIB CRANES

51-16

Height Under Boom in ft. B		SPAN in feet A												
		8	9	10	11	12	13	14	15	16	17	18	19	20
8	Prod. No.	5130677	5130678	5130679	5130680	5130681	5130682	5130683	5130684	5130685	5130686	5130687	5130688	5130689
	Mast, E	14	14	14	14	16	16	16	16	16	16	18	18	18
	Boom, W	10	10	12	12	12	15	15	15	18	18	18	18	18
	Weight	1465	1490	1590	1620	2135	2330	2370	2415	2620	2715	3010	3050	3130
9	Prod. No.	5130690	5130691	5130692	5130693	5130694	5130695	5130696	5130697	5130698	5130699	5130700	5130701	5130702
	Mast, E	14	14	14	14	16	16	16	16	16	16	18	18	18
	Boom, W	10	10	12	12	12	15	15	15	18	18	18	18	18
	Weight	1510	1540	1635	1665	2195	2400	2425	2475	2715	2785	3080	3130	3185
10	Prod. No.	5130703	5130704	5130705	5130706	5130707	5130708	5130709	5130710	5130711	5130712	5130713	5130714	5130715
	Mast, E	14	14	14	14	16	16	16	16	16	16	18	18	18
	Boom, W	10	10	12	12	12	15	15	15	18	18	18	18	18
	Weight	1555	1580	1680	1710	2250	2455	2485	2530	2775	2845	3210	3270	3340
11	Prod. No.	5130716	5130717	5130718	5130719	5130720	5130721	5130722	5130723	5130724	5130725	5130726	5130727	5130728
	Mast, E	14	14	14	14	16	16	16	16	16	16	18	18	18
	Boom, W	10	10	12	12	12	15	15	15	18	18	18	18	18
	Weight	1600	1630	1725	1755	2315	2520	2550	2595	2840	2905	3285	3345	3410
12	Prod. No.	5130729	5130730	5130731	5130732	5130733	5130734	5130735	5130736	5130737	5130738	5130739	5130740	5130741
	Mast, E	14	14	14	14	16	16	16	16	16	16	18	18	18
	Boom, W	10	10	12	12	12	15	15	15	18	18	18	18	18
	Weight	1645	1675	1770	1800	2370	2580	2610	2660	2700	2970	3350	3410	3480
13	Prod. No.	5130742	5130743	5130744	5130745	5130746	5130747	5130748	5130749	5130750	5130751	5130752	5130753	5130754
	Mast, E	14	14	14	14	16	16	16	16	16	16	18	18	18
	Boom, W	10	10	12	12	12	15	15	15	18	18	18	18	18
	Weight	1690	1720	1815	1845	2435	2640	2680	2720	2960	3030	3420	3480	3545
14	Prod. No.	5130755	5130756	5130757	5130758	5130759	5130760	5130761	5130762	5130763	5130764	5130765	5130766	5130767
	Mast, E	14	14	14	16	16	16	16	18	18	18	18	18	20
	Boom, W	10	10	12	12	12	15	15	15	18	18	18	18	18
	Weight	1730	1760	1860	2470	2500	2700	2730	3130	3360	3440	3490	3545	4240
15	Prod. No.	5130768	5130769	5130770	5130771	5130772	5130773	5130774	5130775	5130776	5130777	5130778	5130779	5130780
	Mast, E	14	14	14	16	16	16	16	18	18	18	18	20	20
	Boom, W	10	10	12	12	12	15	15	15	18	18	18	18	18
	Weight	1775	1805	1900	2525	2555	2760	2790	3200	3430	3510	3555	4040	4110
16	Prod. No.	5130781	5130782	5130783	5130784	5130785	5130786	5130787	5130788	5130789	5130790	5130791	5130792	5130793
	Mast, E	14	14	14	16	16	16	18	18	18	18	18	20	24
	Boom, W	10	10	12	12	12	15	15	15	18	18	18	18	18
	Weight	1825	1855	1950	2590	2620	2825	3215	3260	3600	3575	3625	4375	5050
17	Prod. No.	5130794	5130795	5130796	5130797	5130798	5130799	5130800	5130801	5130802	5130803	5130804	5130805	5130806
	Mast, E	14	14	14	16	18	18	18	18	20	20	20	20	24
	Boom, W	10	10	12	12	15	15	15	15	18	18	18	18	18
	Weight	1870	1900	2000	2653	3055	3250	3290	3330	4310	4350	4410	4475	5170
18	Prod. No.	5130807	5130808	5130809	5130810	5130811	5130812	5130813	5130814	5130815	5130816	5130817	5130818	5130819
	Mast, E	14	14	16	16	18	18	18	18	20	20	20	24	24
	Boom, W	10	10	12	12	12	15	15	15	18	18	18	18	18
	Weight	1910	1940	2675	2710	3125	3320	3360	3400	4415	4455	4510	5230	5300
19	Prod. No.	5130820	5130821	5130822	5130823	5130824	5130825	5130826	5130827	5130828	5130829	5130830	5130831	5130832
	Mast, E	14	14	16	16	18	18	18	20	20	20	20	24	24
	Boom, W	10	10	12	12	12	15	15	15	18	18	18	18	18
	Weight	1955	1985	2735	2775	3190	3385	3425	4245	4515	4555	4705	5350	5420
20	Prod. No.	5130833	5130834	5130835	5130836	5130837	5130838	5130839	5130840	5130841	5130842	5130843	5130844	5130845
	Mast, E	14	14	16	16	18	18	18	20	20	20	20	24	24
	Boom, W	10	10	12	12	12	15	15	15	18	18	18	18	18
	Weight	2000	2030	2795	2835	3260	3455	3495	4345	4620	4655	4715	5470	5540

All dimension shown in inches.

**WARNING:** Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

**WARNING:** Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.





# SERIES 513 360° BASE MOUNTED FREE STANDING JIB CRANES

51-17 Issued 10-1-85

**3  
TON**

Height Under Boom in ft. B		SPAN in feet A												
		8	9	10	11	12	13	14	15	16	17	18	19	20
8	Prod. No.	5130846	5130847	5130848	5130849	5130850	5130851	5130852	5130853	5130854	5130855	5130856	5130857	5130858
	Mast, E	16	16	16	16	18	18	18	20	20	20	20	24	24
	Boom, W	12	12	15	15	15	15	18	18	18	20	20	20	24
	Weight	1970	2005	2150	2195	2565	2600	2840	3365	3410	3690	3735	4230	4630
9	Prod. No.	5130859	5130860	5130861	5130862	5130863	5130864	5130865	5130866	5130867	5130868	5130869	5130870	5130871
	Mast, E	16	16	16	16	18	18	18	20	20	20	20	24	24
	Boom, W	12	12	15	15	15	15	18	18	18	20	20	24	24
	Weight	2035	2060	2215	2255	2615	2650	2890	3420	3465	3735	3780	4300	4730
10	Prod. No.	5130872	5130873	5130874	5130875	5130876	5130877	5130878	5130879	5130880	5130881	5130882	5130883	5130884
	Mast, E	16	16	16	16	18	18	18	20	20	20	20	24	24
	Boom, W	12	12	15	15	15	15	18	18	18	20	20	20	24
	Weight	2090	2120	2270	2320	2670	2710	3935	3460	3505	3720	3830	4370	4815
11	Prod. No.	5130885	5130886	5130887	5130888	5130889	5130890	5130891	5130892	5130893	5130894	5130895	5130896	5130897
	Mast, E	16	16	16	16	18	18	18	20	20	20	20	24	24
	Boom, W	12	12	15	15	15	15	18	18	18	20	20	20	24
	Weight	2150	2180	2335	2380	2740	2780	3010	3560	3605	3875	3930	4490	4935
12	Prod. No.	5130898	5130899	5130900	5130901	5130902	5130903	5130904	5130905	5130906	5130907	5130908	5130909	5130910
	Mast, E	16	16	16	16	18	18	18	20	20	20	20	24	24
	Boom, W	12	12	15	15	15	15	18	18	18	20	20	20	24
	Weight	2210	2240	2390	2440	2810	2845	3075	3660	3705	3970	4030	4610	5055
13	Prod. No.	5130911	5130912	5130913	5130914	5130915	5130916	5130917	5130918	5130919	5130920	5130921	5130922	5130923
	Mast, E	16	16	16	16	18	18	18	20	20	20	20	24	24
	Boom, W	12	12	15	15	15	15	18	18	18	20	20	20	24
	Weight	2270	2300	2450	2500	2875	2910	3140	3760	3805	4075	4130	4730	5180
14	Prod. No.	5130924	5130925	5130926	5130927	5130928	5130929	5130930	5130931	5130932	5130933	5130934	5130935	5130936
	Mast, E	16	16	16	16	18	18	18	20	20	20	20	24	24
	Boom, W	12	12	15	15	15	15	18	18	18	20	20	20	24
	Weight	2335	2360	2515	2560	2940	2980	3210	3860	3905	4170	4230	4850	5300
15	Prod. No.	5130937	5130938	5130939	5130940	5130941	5130942	5130943	5130944	5130945	5130946	5130947	5130948	5130949
	Mast, E	16	16	16	16	18	18	18	20	20	20	20	24	24
	Boom, W	12	12	15	15	15	15	18	18	18	20	20	20	24
	Weight	2390	2420	2570	2620	3010	3045	3275	3955	4005	4270	4390	4970	5415
16	Prod. No.	5130950	5130951	5130952	5130953	5130954	5130955	5130956	5130957	5130958	5130959	5130960	5130961	5130962
	Mast, E	16	16	16	16	18	18	18	20	20	20	24	24	24
	Boom, W	12	12	15	15	15	15	18	18	18	20	20	20	24
	Weight	2450	2480	2630	2670	3080	3115	3345	4055	4105	4370	5030	5090	5535
17	Prod. No.	5130963	5130964	5130965	5130966	5130967	5130968	5130969	5130970	5130971	5130972	5130973	5130974	5130975
	Mast, E	16	16	16	18	18	20	20	20	24	24	24	24	24
	Boom, W	12	12	15	15	15	15	18	18	18	20	20	20	24
	Weight	2515	2540	2695	3105	3145	3870	4100	4155	4830	5090	5155	5210	5660
18	Prod. No.	5130976	5130977	5130978	5130979	5130980	5130981	5130982	5130983	5130984	5130985	5130986	5130987	5130988
	Mast, E	16	16	16	18	18	20	20	20	24	24	24	24	24
	Boom, W	12	12	15	15	15	15	18	18	18	20	20	20	24
	Weight	2570	2600	2750	3175	3210	3975	4200	4260	4950	5205	5275	5330	5775
19	Prod. No.	5130989	5130990	5130991	5130992	5130993	5130994	5130995	5130996	5130997	5130998	5130999	5131000	5131001
	Mast, E	16	16	16	18	20	20	20	24	24	24	24	24	24
	Boom, W	12	12	15	15	15	15	18	18	18	20	20	20	24
	Weight	2630	2660	2815	3245	4035	4070	4300	5010	5070	5325	5410	5450	5895
20	Prod. No.	5131002	5131003	5131004	5131005	5131006	5131007	5131008	5131009	5131010	5131011	5131012	5131013	5131014
	Mast, E	16	16	16	18	20	20	20	24	24	24	24	24	24
	Boom, W	12	12	15	15	15	15	18	18	18	20	20	20	24
	Weight	2395	2720	2875	3310	4135	4170	4400	5130	5190	5445	5510	5570	6015

All dimension shown in inches.

**WARNING:** Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

**WARNING:** Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



# 4 TON

## SERIES 513 360° BASE MOUNTED FREE STANDING JIB CRANES

Height Under Boom in ft. B		SPAN in feet A												
		8	9	10	11	12	13	14	15	16	17	18	19	20
8	Prod. No.	5131015	5131016	5131017	5131018	5131019	5131020	5131021	5131022	5131023	5131024	5131025	5131026	5131027
	Mast, E	16	18	18	18	20	20	20	24	24	24	24	24	24
	Boom, W	15	15	15	15	18	18	18	20	20	20	24	24	24
9	Prod. No.	5131028	5131029	5131030	5131031	5131032	5131033	5131034	5131035	5131036	5131037	5131038	5131039	5131040
	Mast, E	16	18	18	18	20	20	20	24	24	24	24	24	24
	Boom, W	15	15	15	15	18	18	18	20	20	20	24	24	24
10	Prod. No.	5131041	5131042	5131043	5131044	5131045	5131046	5131047	5131048	5131049	5131050	5131051	5131052	5131053
	Mast, E	16	18	18	18	20	20	20	24	24	24	24	24	24
	Boom, W	15	15	15	15	18	18	18	20	20	20	24	24	24
11	Prod. No.	5131054	5131055	5131056	5131057	5131058	5131059	5131060	5131061	5131062	5131063	5131064	5131065	5131066
	Mast, E	16	18	18	18	20	20	20	24	24	24	24	24	24
	Boom, W	15	15	15	15	18	18	18	20	20	20	24	24	24
12	Prod. No.	5131067	5131068	5131069	5131070	5131071	5131072	5131073	5131074	5131075	5131076	5131077	5131078	5131079
	Mast, E	16	18	18	18	20	20	20	24	24	24	24	24	24
	Boom, W	15	15	15	15	18	18	18	20	20	20	24	24	24
13	Prod. No.	5131080	5131081	5131082	5131083	5131084	5131085	5131086	5131087	5131088	5131089	5131090	5131091	5131092
	Mast, E	16	18	18	18	20	20	20	24	24	24	24	24	24
	Boom, W	15	15	15	15	18	18	18	20	20	20	24	24	24
14	Prod. No.	5131093	5131094	5131095	5131096	5131097	5131098	5131099	5131100	5131101	5131102	5131103	5131104	5131105
	Mast, E	16	18	18	18	20	20	20	24	24	24	24	24	24
	Boom, W	15	15	15	15	18	18	18	20	20	20	24	24	24
15	Prod. No.	5131106	5131107	5131108	5131109	5131110	5131111	5131112	5131113	5131114	5131115	5131116	5131117	5131118
	Mast, E	16	18	18	18	20	20	20	24	24	24	24	24	24
	Boom, W	15	15	15	15	18	18	18	20	20	20	24	24	24
16	Prod. No.	5131119	5131120	5131121	5131122	5131123	5131124	5131125	5131126	5131127	5131128	5131129	5131130	5131131
	Mast, E	16	18	18	18	20	20	20	24	24	24	24	24	24
	Boom, W	15	15	15	15	18	18	18	20	20	20	24	24	24
17	Prod. No.	5131132	5131133	5131134	5131135	5131136	5131137	5131138	5131139	5131140	5131141	5131142	5131143	5131144
	Mast, E	16	18	18	18	20	20	24	24	24	24	24	24	24
	Boom, W	15	15	15	15	18	18	18	20	20	20	24	24	24
18	Prod. No.	5131145	5131146	5131147	5131148	5131149	5131150	5131151	5131152	5131153	5131154	5131155	5131156	5131157
	Mast, E	16	18	18	18	20	24	24	24	24	24	24	24	30
	Boom, W	15	15	15	15	18	18	18	20	20	20	24	24	24
19	Prod. No.	5131158	5131159	5131160	5131161	5131162	5131163	5131164	5131165	5131166	5131167	5131168	5131169	5131170
	Mast, E	16	18	18	20	20	24	24	24	24	24	24	24	30
	Boom, W	15	15	15	15	18	18	18	20	20	20	24	24	24
20	Prod. No.	5131171	5131172	5131173	5131174	5131175	5131176	5131177	5131178	5131179	5131180	5131181	5131182	5131183
	Mast, E	16	18	18	20	20	24	24	24	24	24	24	30	30
	Boom, W	15	15	15	15	18	18	18	20	20	20	24	24	24

All dimensions shown in inches.

**WARNING:** Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

**WARNING:** Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.





# SERIES 513 360° BASE MOUNTED FREE STANDING JIB CRANES

51-19 Issued 10-1-85

# 5 TON

Height Under Boom in ft. B		SPAN in feet A												
		8	9	10	11	12	13	14	15	16	17	18	19	20
8	Prod. No.	5131184	5131185	5131186	5131187	5131188	5131189	5131190	5131191	5131192	5131193	5131194	5131195	5131196
	Mast, E	18	20	20	20	24	24	24	24	24	30	30	30	30
	Boom, W	15	15	18	18	18	20	20	20	24	24	24	24	24
	Weight	2430	2900	3055	3140	3635	3840	3895	3990	4300	5785	6365	6470	6565
9	Prod. No.	5131197	5131198	5131199	5131200	5131201	5131202	5131203	5131204	5131205	5131206	5131207	5131208	5131209
	Mast, E	18	20	20	20	24	24	24	24	24	30	30	30	30
	Boom, W	15	15	18	18	18	20	20	20	24	24	24	24	24
	Weight	2470	2970	3150	3205	3715	3925	3980	4075	4430	5860	6440	6845	6650
10	Prod. No.	5131210	5131211	5131212	5131213	5131214	5131215	5131216	5131217	5131218	5131219	5131220	5131221	5131222
	Mast, E	18	20	20	20	24	24	24	24	24	30	30	30	30
	Boom, W	15	15	18	18	18	20	20	20	24	24	24	24	24
	Weight	2510	3010	3195	3250	3780	4000	4055	4150	4475	5950	6515	6620	6720
11	Prod. No.	5131223	5131224	5131225	5131226	5131227	5131228	5131229	5131230	5131231	5131232	5131233	5131234	5131235
	Mast, E	18	20	20	20	24	24	24	24	24	30	30	30	30
	Boom, W	15	15	18	18	18	20	20	20	24	24	24	24	24
	Weight	2575	3110	3290	3350	3900	4120	4175	4270	4595	6100	6670	6775	6875
12	Prod. No.	5131236	5131237	5131238	5131239	5131240	5131241	5131242	5131243	5131244	5131245	5131246	5131247	5131248
	Mast, E	18	20	20	20	24	24	24	24	24	30	30	30	30
	Boom, W	15	15	18	18	18	20	20	20	24	24	24	24	24
	Weight	2640	3210	3390	3450	4020	4240	4295	4390	4715	6250	6820	6920	7020
13	Prod. No.	5131249	5131250	5131251	5131252	5131253	5131254	5131255	5131256	5131257	5131258	5131259	5131260	5131261
	Mast, E	18	20	20	20	24	24	24	24	24	30	30	30	30
	Boom, W	15	15	18	18	18	20	20	20	24	24	24	24	24
	Weight	2715	3310	3490	3550	4145	4360	4420	4515	4835	6405	6975	7080	7180
14	Prod. No.	5131262	5131263	5131264	5131265	5131266	5131267	5131268	5131269	5131270	5131271	5131272	5131273	5131274
	Mast, E	18	20	20	20	24	24	24	24	24	30	30	30	30
	Boom, W	15	15	18	18	18	20	20	20	24	24	24	24	24
	Weight	2780	3410	3590	3650	4260	4480	4535	4630	4955	6555	7125	7230	7330
15	Prod. No.	5131275	5131276	5131277	5131278	5131279	5131280	5131281	5131282	5131283	5131284	5131285	5131286	5131287
	Mast, E	18	20	20	20	24	24	24	24	24	30	30	30	30
	Boom, W	15	15	18	18	18	20	20	20	24	24	24	24	24
	Weight	2845	3510	3690	3750	4380	4600	4655	4750	5075	6710	7280	7380	7480
16	Prod. No.	5131288	5131289	5131290	5131291	5131292	5131293	5131294	5131295	5131296	5131297	5131298	5131299	5131300
	Mast, E	18	20	20	20	24	24	24	24	24	30	30	30	30
	Boom, W	15	15	18	18	18	20	20	20	24	24	24	24	24
	Weight	2910	3610	3790	3855	4500	4715	4775	4870	5190	6860	7430	7535	7635
17	Prod. No.	5131301	5131302	5131303	5131304	5131305	5131306	5131307	5131308	5131309	5131310	5131311	5131312	5131313
	Mast, E	18	20	20	20	24	24	24	24	24	30	30	30	30
	Boom, W	15	15	18	18	18	20	20	20	24	24	24	24	24
	Weight	2980	3710	3890	3955	4620	4835	4895	4990	5310	7010	7580	7685	7785
18	Prod. No.	5131314	5131315	5131316	5131317	5131318	5131319	5131320	5131321	5131322	5131323	5131324	5131325	5131326
	Mast, E	18	20	20	20	24	24	24	24	24	30	30	30	30
	Boom, W	15	15	18	18	18	20	20	20	24	24	24	24	24
	Weight	3045	3810	3990	4060	4740	4960	5015	5110	5435	7165	7735	7890	7940
19	Prod. No.	5131327	5131328	5131329	5131330	5131331	5131332	5131333	5131334	5131335	5131336	5131337	5131338	5131339
	Mast, E	18	20	20	20	24	24	24	24	24	30	30	30	30
	Boom, W	15	15	18	18	18	20	20	20	24	24	24	24	24
	Weight	3115	3910	4090	4160	4860	5080	5135	5230	5555	7315	7885	7990	8090
20	Prod. No.	5131340	5131341	5131342	5131343	5131344	5131345	5131346	5131347	5131348	5131349	5131350	5131351	5131352
	Mast, E	18	20	20	20	24	24	24	24	24	30	30	30	30
	Boom, W	15	15	18	18	18	20	20	20	24	24	24	24	24
	Weight	3185	4010	4190	4260	4980	5200	5255	5350	5670	7470	8040	8140	8240

All dimension shown in inches.

**WARNING:** Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

**WARNING:** Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



**1/4 to 5  
TONS**

**SERIES 513 360° BASE MOUNTED  
FREE STANDING JIB CRANES**

51-20

**STANDARD EQUIPMENT SPECIFICATIONS**

**DESIGN FACTORS:** Standard capacity ratings shall represent the net rated load at the hook of any type of hoist with the same load rating installed on the jib crane having a hoist trolley weight within the established limits. The jib crane shall be so designed in the load-carrying parts that the calculated static stress in the material based on the rated load, shall not exceed 20% of the published average ultimate strength of the material. This limitation of stress provides a margin to allow for variations in the properties of materials, manufacturing and operation conditions, and design assumptions. Design load for stress calculations shall be based upon the capacity plus 15% for the weight of the hoist and trolley and an additional 25% for impact (capacity X 1.4). However, under no condition shall the crane be loaded beyond its rated capacity.

**BOOM:** Boom beam shall be constructed in accord with AISC specifications. Under full load the beam deflection shall not exceed 1/150 of the span. Design load for deflection calculation shall be based upon the capacity plus 15% for the weight of the hoist and trolley (capacity X 1.15). Boom beam shall be selected structural steel member and shall provide level and straight tread surfaces for the hoist trolleys. The beam shall have adequate lateral stiffness with minimum lateral moment of inertia of 1/20 that of the vertical moment of inertia. Boom shall be reinforced, when required, with channel capping for added strength and lateral stability.

**MAST:** The jib crane masts shall be constructed from structural pipe of proper diameter to give a minimum of deflection and sufficient wall strength to resist crushing and wear at the lower roller assembly.

**HEAD ASSEMBLY:** The head assembly shall be constructed of standard steel plate and designed to limit deflection and provide resistance to dislodgement in both outward and upward directions. The boom shall be attached to the jib head front and back through large, heavy duty plates and channels which will distribute boom loading forces through reinforcing channels to the lower roller assembly of the head, and through the bearing to the pivot pin on top of the jib mast. Jib heads made from plate only, without reinforcing channels, are not acceptable.

The head assembly shall allow for an enclosed bottom entrance collector assembly to be installed inside the head, and be able to be installed independently of the boom.

**BEARINGS:** The boom support top bearing shall be heavy-duty tapered roller bearing with a minimum average life of 10,000 hours. The bearing assembly shall have provision for a retaining pin in double shear above the top pivot bearing. The lower roller assembly bearing shall be adjustable and have two (2) large diameter rollers with each roller having a minimum of two (2) heavy-duty roller bearings operating on hardened bolts with provisions for pressure grease lubrication.

**BASE PLATE:** The jib crane base plates are to be constructed from solid base plate with full web reinforcing gussets supporting the entire base plate and tying same into the jib masts. The base plate is to have a minimum of six (6) gussets and either six (6) or twelve (12) bolts properly spaced to furnish a minimum of forces being exerted on the concrete support foundation. Base plates made from rings or bar type gussets supporting only the outside of the base plate are not acceptable.

**PAINTING:** The jib crane before shipment shall be painted with a prime and finish coat of a lead-free alkyd air-dry enamel. The prime coat is a buff color with a semi-gloss finish. The finish coat is a yellow oxide with a full gloss finish.

**OPERATING AND MAINTENANCE:** Proper erection instructions, parts list and maintenance instructions will be furnished with the crane.

**WARNING:** Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

**WARNING:** Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



**Acco Products Division**

A division of Babcock Industries Inc.

1110 E. Princess Street, York, PA 17403  
Telephone 717 843-1523  
FAX 717 846-5387 Telex 84-0411

A member of the Acco Material Handling Group

12140 Bellflower Blvd., Downey, CA 90241  
Telephone 213 862-8101 Telex 69-8196

**Babcock**

© Acco Babcock Inc. 1987  
Printed in U.S.A.





## Acco Products Division

A division of Babcock Industries Inc.

Issued 10-1-85  
Supersedes 3-1-85

51-21

### SERIES 514

#### 360° INSERT MOUNTED FREE STANDING JIB CRANE

CAPACITIES ½ TO 5 TONS  
SPANS 8 TO 20 FEET



The Acco Series 514 Insert Mounted Jib Crane is designed for use with hoists in applications where defined area coverage is required or as a supplement to overhead traveling cranes. The free standing models offer up to 360° continuous rotation without being attached to the building structure. The Insert mounted jib crane is best suited for installations where floor space immediately around the pillar is limited. The insert mounted jib crane requires suitable reinforced concrete foundation, and is mounted directly into the floor.

The head assembly has a retaining pin above the bearing assembly to protect against incidental dislodgement of the head from the mast. The assembly can be installed independently of the boom. This minimizes the necessary overhead room required for installation.

The jib crane, when combined with an electric hoist, can be electrified by means of a commutator enclosed in the hood and festoon electrification arrangement suitable for NEMA 1 indoor service or NEMA 3R outdoor service.

### CONSTRUCTION FEATURES

**HEAD ASSEMBLY:** The design of the Acco head assembly as an independent assembly which rotates about the pin in the top of the mast pipe, allows installation of the head separate from the boom, thus decreasing required overhead clearance during installation. A structural channel joins the two sides of the head assembly in the rear of the head and resists dislodgement of the head in the event the boom is lifted.

**TOP PIVOT BEARING:** Connection of the head assembly to the mast pipe is made via the top pivot assembly. The top pivot assembly incorporates a bearing plate connecting the two sides of the head assembly approximately 8 inches below the top of the head. The plate supports a Timken tapered roller bearing to provide the greatest ease of rotation. A retaining pin is provided through the pivot pin above the bearing plate to resist dislodgement of the head.

Recessing the pivot assembly within the head assembly reduces the clearance required for installation and allows the addition of a bottom entry collector assembly for electrification from 360° rotation either initially or as a simple field modification. The collector assembly is thus completely enclosed within the head assembly.

**TRUNNION ROLLER ASSEMBLY:** This assembly provides a second bearing point within the head assembly which transmits the moment exerted on the boom to the mast pipe, while providing for ease of rotation. Two capacities of trunnion roller assemblies are utilized in Free-Standing Jib Cranes. Type 1 consists of a single formed channel and two rollers and is used on all cranes up to and including 2 tons of capacity. Type 2 utilizes two sets of articulated rollers mounted to the formed channel. The mounting bracket assembly is connected to the head via threaded rod for easy level adjustment of the boom during installation. Grease fittings on the bearings allow for simple field lubrication.

**MAST:** Series 514 Jib Crane mast is constructed from structural pipe.

**BOOM:** Boom constructed from standard S-Beams, reinforced where necessary with channel capping for added strength and lateral stability. A back plate welded to the boom, and an angle welded to the front of the head assembly serve as connecting points for the bolted connection of the boom and head assembly. This allows boom and head assembly to be shipped and installed separately.

**BASE PLATE:** A simple, rectangular plate is welded to the base of the mast pipe and secured via anchor bolts to the first pour of the foundation.



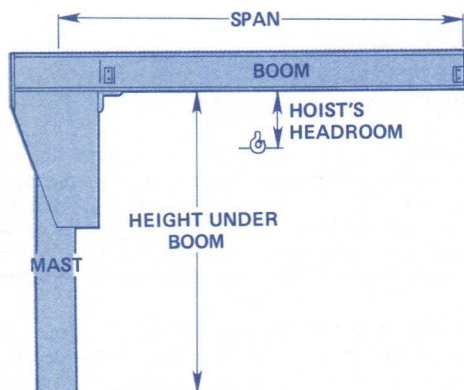
# 1/4 to 5 TONS

## SERIES 514 360° INSERT MOUNTED FREE STANDING JIB CRANE

51-22

### HOW TO SPECIFY ACCO SERIES 514 BASE MOUNTED FREE STANDING JIB CRANE .

1. Determine the capacity, span of boom and height under boom required.



2. Specify proper product number in regards to jib crane capacity, span, and under boom height found in following pages.
3. Specify the style of insert. Two styles of insert mounted free standing jib cranes are available. The standard insert has small bottom base plate welded to base of the mast pipe and secured via anchor bolts to the first pour of the foundation. The optional version has insert sleeve to position and hold the base of mast pipe. This offers portability and alignment ease.
4. Specify diameter of the mast. Series 514 jib cranes are designed with a standard range of mast diameters. The first number under product number designates mast's diameter (dimension E). By using this number, the bolt circle diameter, bolt pattern, the number and size of bolts, and the size and shape of the base plate used for each particular size mast may be found in the following chart.

Diameter of Mast E in.	MAST DATA Dimensions				Std. Insert Anchor Bolt Pattern		Optional Sleeve R in.
	J in.	K in.	H1 in.	H2 in.	P in.	Q in.	
8	10 3/8	10	46 3/4	4	11	8	11 3/4
12	12 7/8	12 1/2	71 3/4	6	15	12	15
14	15 3/8	15	72	8	17	14	17
16	17 3/8	17	72	8	19	16	19
18	17 3/8	17	72	9	21	18	21
20	17 7/8	17 1/2	72	10	23	20	23
24	22 7/8	22 1/2	72	12	27	24	27
30	25 3/8	25	84	12	33	30	33

5. Specify height of the boom. The second number under the product number designates depth of the boom, W. By using this number the size and flange width may be found in following chart.

STANDARD BOOM DATA		
Boom Height W	Beam Size	Flange Width in.
6	6S12.5 #	3 3/8
7	7S15.3 #	3 5/8
8	8S18.4 #	4
10	10S25.4 #	4 5/8
12	12S31.8 #	5
15	15S42.9 #	5 1/2
18	18S54.7 #	6
20	20S66 #	6 1/4
24	24S80 #	7

6. Specify foundation requirements. A structurally reinforced foundation is required to support the mounting of the free standing jib crane. When the load is applied to the jib crane, this puts a moment on the foundation which must be of sufficient size to resist the compression and tension forces. See the following chart for size and location requirement for proper installation.

STANDARD FOOTING REQUIREMENTS			
Capacity Tons	Span Ft.	Footing Size	
		Width ft. M	Depth ft. L
1/4	8-13	4	3
	14-20	4	4
1/2	8-12	4	4
	13-20	5	4
1	8-10	5	4
	11-15	6	4
	16-20	7	4
1 1/2	8-12	6	4
	13-15	7	4
	16-20	8	4
2	8-11	6	4
	12-15	7	4
	16-20	8	4
3	8-16	8	4
	17-20	9	4
4	8-13	8	4
	14-20	10	4
5	8-14	9	4
	15-18	10	4
	19-20	10	5

Jib crane foundation requirements are based on a soil pressure of 2500# per square foot.

Concrete recommended for jib crane foundation is 3000# per square inch of compressive concrete.

7. Select desired Acco hoist.

Section 10 for Hand Operated Hoist, 1/2 to 5 tons

Section 20 for *WRIGHT-WAY*® Electric Hoist,

1/4 to 2 tons

Section 21 for *WRIGHT-WAY* Air Operated Hoist,

1/4 to 2 tons

Section 30 for *WORK-RATED*® Electric Hoist,

1 to 5 tons

8. Specify other modifications and accessories. See page 51-41 for further specifications.

**WARNING:** Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

**WARNING:** Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.

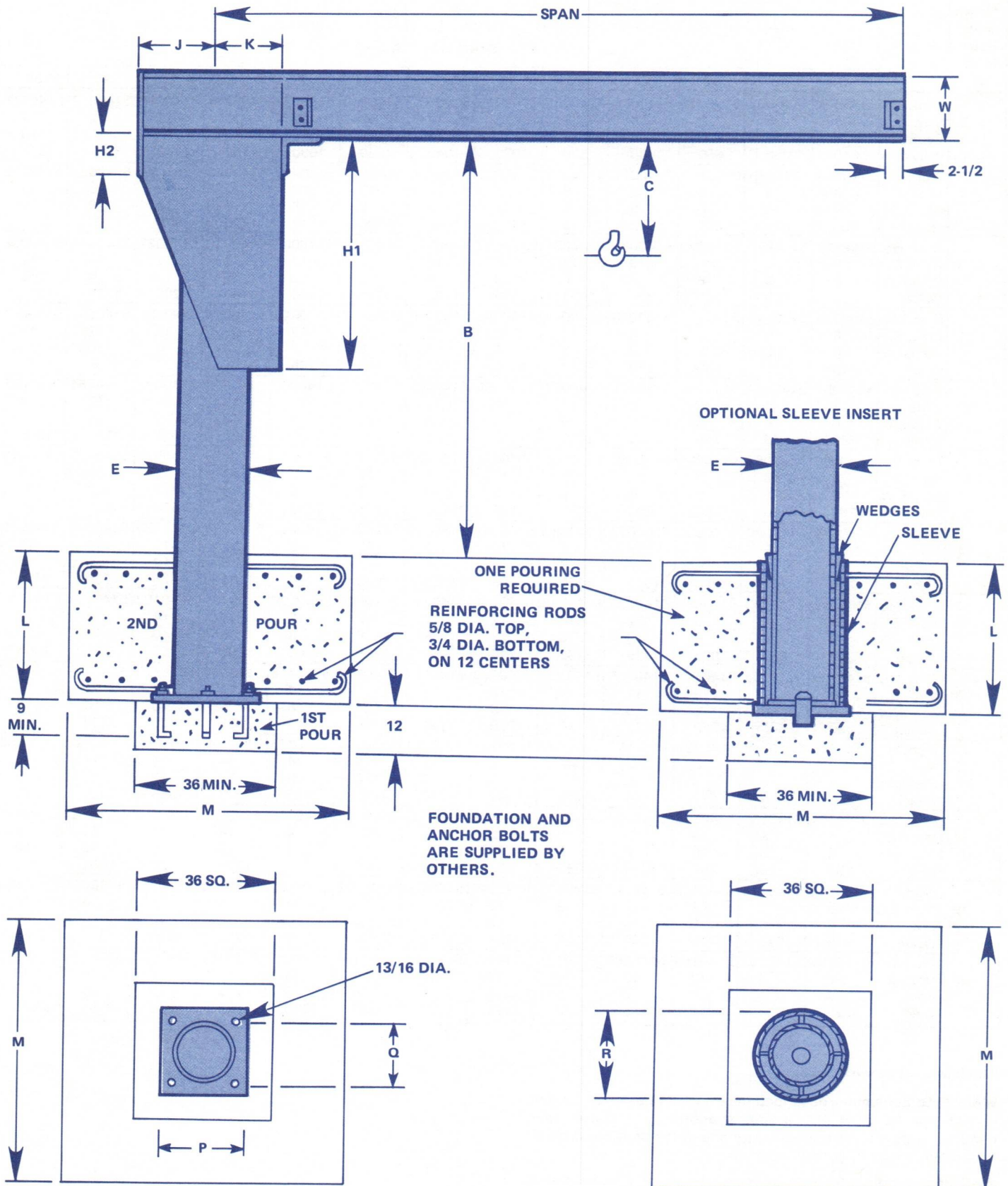




**SERIES 514 360° INSERT MOUNTED  
FREE STANDING JIB CRANE**

51-23 Issued 10-1-85

**1/4 to 5  
TONS**



All dimensions shown in inches.



# 1/4 TON

## SERIES 514 360° INSERT MOUNTED FREE STANDING JIB CRANE

51-24

Height Under Boom in ft. B		SPAN in feet A												
		8	9	10	11	12	13	14	15	16	17	18	19	20
8	Prod. No.	5140001	5140002	5140003	5140004	5140005	5140006	5140007	5140008	5140009	5140010	5140011	5140012	5140013
	Mast, E	8	8	8	8	8	12	12	12	12	12	12	12	12
	Boom, W	6	6	6	6	6	8	8	8	8	8	10	10	10
	Weight	640	650	660	680	690	1020	1040	1060	1080	1100	1240	1270	1300
9	Prod. No.	5140014	5140015	5140016	5140017	5140018	5140019	5140020	5140021	5140022	5140023	5140024	5140025	5140026
	Mast, E	8	8	8	8	8	12	12	12	12	12	12	12	12
	Boom, W	6	6	6	6	6	8	8	8	8	8	10	10	10
	Weight	665	675	685	705	715	1050	1070	1090	1110	1125	1270	1300	1325
10	Prod. No.	5140027	5140028	5140029	5140030	5140031	5140032	5140033	5140034	5140035	5140036	5140037	5140038	5140039
	Mast, E	8	8	8	8	12	12	12	12	12	12	12	12	12
	Boom, W	6	6	6	6	6	8	8	8	8	8	10	10	10
	Weight	690	700	710	725	1000	1085	1105	1120	1140	1160	1200	1330	1360
11	Prod. No.	5140040	5140041	5140042	5140043	5140044	5140045	5140046	5140047	5140048	5140049	5140050	5140051	5140052
	Mast, E	8	8	8	8	12	12	12	12	12	12	12	12	14
	Boom, W	6	6	6	6	6	8	8	8	8	8	10	10	10
	Weight	715	725	730	750	1030	1120	1135	1155	1175	1195	1335	1365	1630
12	Prod. No.	5140053	5140054	5140055	5140056	5140057	5140058	5140059	5140060	5140061	5140062	5140063	5140064	5140065
	Mast, E	8	8	8	8	12	12	12	12	12	12	12	12	14
	Boom, W	6	6	6	6	6	8	8	8	8	8	10	10	10
	Weight	740	745	755	775	1060	1145	1165	1185	1200	1220	1365	1390	1675
13	Prod. No.	5140066	5140067	5140068	5140069	5140070	5140071	5140072	5140073	5140074	5140075	5140076	5140077	5140078
	Mast, E	8	8	8	8	12	12	12	12	12	12	12	14	14
	Boom, W	6	6	6	6	6	8	8	8	8	8	10	10	10
	Weight	760	770	780	800	1095	1180	1200	1215	1235	1255	1400	1690	1715
14	Prod. No.	5140079	5140080	5140081	5140082	5140083	5140084	5140085	5140086	5140087	5140088	5140089	5140090	5140091
	Mast, E	8	8	8	12	12	12	12	12	12	12	12	14	14
	Boom, W	6	6	6	6	6	8	8	8	8	8	10	10	10
	Weight	785	795	805	1095	1120	1205	1225	1245	1265	1285	1425	1730	1760
15	Prod. No.	5140092	5140093	5140094	5140095	5140096	5140097	5140098	5140099	5140100	5140101	5140102	5140103	5140104
	Mast, E	8	8	8	12	12	12	12	12	12	14	14	14	14
	Boom, W	6	6	6	6	6	8	8	8	8	8	10	10	10
	Weight	810	820	825	1125	1155	1240	1260	1280	1300	1605	1760	1775	1805
16	Prod. No.	5140105	5140106	5140107	5140108	5140109	5140110	5140111	5140112	5140113	5140114	5140115	5140116	5140117
	Mast, E	8	8	8	12	12	12	12	12	14	14	14	14	14
	Boom, W	6	6	6	6	6	8	8	8	8	8	10	10	10
	Weight	830	840	850	1155	1185	1270	1290	1305	1630	1650	1800	1820	1850
17	Prod. No.	5140118	5140119	5140120	5140121	5140122	5140123	5140124	5140125	5140126	5140127	5140128	5140129	5140130
	Mast, E	8	8	8	12	12	12	12	14	14	14	14	14	16
	Boom, W	6	6	6	6	6	8	8	8	8	8	10	10	10
	Weight	855	865	875	1190	1215	1300	1320	1655	1675	1690	1845	1865	2425
18	Prod. No.	5140131	5140132	5140133	5140134	5140135	5140136	5140137	5140138	5140139	5140140	5140141	5140142	5140143
	Mast, E	8	8	8	12	12	12	14	14	14	14	14	14	16
	Boom, W	6	6	6	6	6	8	8	8	8	8	10	10	10
	Weight	880	890	900	1220	1250	1335	1680	1695	1715	1735	1885	1905	2485
19	Prod. No.	5140144	5140145	5140146	5140147	5140148	5140149	5140150	5140151	5140152	5140153	5140154	5140155	5140156
	Mast, E	8	8	12	12	12	12	14	14	14	14	14	14	16
	Boom, W	6	6	6	6	6	8	8	8	8	8	10	10	10
	Weight	905	915	1240	1250	1280	1365	1720	1740	1760	1780	1930	1950	2545
20	Prod. No.	5140157	5140158	5140159	5140160	5140161	5140162	5140163	5140164	5140165	5140166	5140167	5140168	5140169
	Mast, E	8	8	12	12	12	12	14	14	14	14	14	16	16
	Boom, W	6	6	6	6	6	8	8	8	8	8	10	10	10
	Weight	925	935	1275	1285	1310	1395	1765	1780	1800	1820	1970	2585	2605

All dimensions shown in inches.

**WARNING:** Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

**WARNING:** Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



**SERIES 514 360° INSERT MOUNTED  
FREE STANDING JIB CRANE**

51-25 Issued 10-1-85

**1/2  
TON**

Height Under Boom in ft. B		SPAN in feet A												
		8	9	10	11	12	13	14	15	16	17	18	19	20
8	Prod. No.	5140170	5140171	5140172	5140173	5140174	5140175	5140176	5140177	5140178	5140179	5140180	5140181	5140182
	Mast, E	8	8	8	12	12	12	12	12	12	12	14	14	14
	Boom, W	6	6	8	8	10	10	12	12	12	12	15	15	15
	Weight	670	680	770	1010	1115	1145	1265	1300	1325	1360	1775	1810	1850
9	Prod. No.	5140183	5140184	5140185	5140186	5140187	5140188	5140189	5140190	5140191	5140192	5140193	5140194	5140195
	Mast, E	8	8	8	12	12	12	12	12	12	12	14	14	14
	Boom, W	6	6	8	8	10	10	12	12	12	12	15	15	15
	Weight	695	705	795	1040	1150	1180	1300	1325	1360	1390	1815	1855	1890
10	Prod. No.	5140196	5140197	5140198	5140199	5140200	5140201	5140202	5140203	5140204	5140205	5140206	5140207	5140208
	Mast, E	8	8	8	12	12	12	12	12	12	12	14	14	14
	Boom, W	6	6	8	8	10	10	12	12	12	12	15	15	15
	Weight	730	740	820	1045	1155	1200	1300	1330	1365	1420	1865	1905	1945
11	Prod. No.	5140209	5140210	5140211	5140212	5140213	5140214	5140215	5140216	5140217	5140218	5140219	5140220	5140221
	Mast, E	8	12	12	12	12	12	12	12	12	14	14	14	14
	Boom, W	6	6	8	8	10	10	12	12	12	12	15	15	15
	Weight	755	765	1060	1080	1170	1215	1335	1365	1400	1670	1905	1950	1985
12	Prod. No.	5140222	5140223	5140224	5140225	5140226	5140227	5140228	5140229	5140230	5140231	5140232	5140233	5140234
	Mast, E	8	12	12	12	12	12	12	12	12	14	14	14	14
	Boom, W	6	6	8	8	10	10	12	12	12	12	15	15	15
	Weight	780	795	1095	1110	1200	1245	1365	1390	1455	1710	1950	1990	2030
13	Prod. No.	5140235	5140236	5140237	5140238	5140239	5140240	5140241	5140242	5140243	5140244	5140245	5140246	5140247
	Mast, E	8	12	12	12	12	12	12	12	14	14	14	14	14
	Boom, W	6	6	8	8	10	10	12	12	12	12	15	15	15
	Weight	810	1050	1125	1140	1230	1280	1400	1425	1725	1760	1990	2035	2070
14	Prod. No.	5140248	5140249	5140250	5140251	5140252	5140253	5140254	5140255	5140256	5140257	5140258	5140259	5140260
	Mast, E	12	12	12	12	12	12	12	12	14	14	14	14	16
	Boom, W	6	6	8	8	10	10	12	12	12	12	15	15	15
	Weight	1065	1080	1160	1175	1260	1310	1430	1460	1770	1800	2035	2075	2555
15	Prod. No.	5140261	5140262	5140263	5140264	5140265	5140266	5140267	5140268	5140269	5140270	5140271	5140272	5140273
	Mast, E	12	12	12	12	12	12	12	14	14	14	14	16	16
	Boom, W	6	6	8	8	10	10	12	12	12	12	15	15	15
	Weight	1095	1110	1195	1205	1290	1345	1465	1785	1810	1845	2075	2575	2620
16	Prod. No.	5140274	5140275	5140276	5140277	5140278	5140279	5140280	5140281	5140282	5140283	5140284	5140285	5140286
	Mast, E	12	12	12	12	12	12	14	14	14	16	16	16	16
	Boom, W	6	6	8	8	10	10	12	12	12	12	15	15	15
	Weight	1130	1145	1225	1240	1320	1380	1795	1825	1855	2360	2595	2640	2680
17	Prod. No.	5140287	5140288	5140289	5140290	5140291	5140292	5140293	5140294	5140295	5140296	5140297	5140298	5140299
	Mast, E	12	12	12	12	12	14	14	14	14	16	16	16	16
	Boom, W	6	6	8	8	10	10	12	12	12	12	15	15	15
	Weight	1165	1180	1260	1275	1355	1720	1840	1870	1895	2420	2650	2700	2740
18	Prod. No.	5140300	5140301	5140302	5140303	5140304	5140305	5140306	5140307	5140308	5140309	5140310	5140311	5140312
	Mast, E	12	12	12	14	14	14	14	14	14	16	16	16	16
	Boom, W	6	6	8	8	10	10	12	12	12	12	15	15	15
	Weight	1195	1210	1295	1630	1740	1765	1880	1910	1940	2480	2715	2760	2895
19	Prod. No.	5140313	5140314	5140315	5140316	5140317	5140318	5140319	5140320	5140321	5140322	5140323	5140324	5140325
	Mast, E	12	12	12	14	14	14	14	14	16	16	16	16	16
	Boom, W	6	6	8	8	10	10	12	12	12	12	15	15	15
	Weight	1225	1245	1325	1675	1780	1805	1925	1955	2510	2540	2775	2820	2865
20	Prod. No.	5140326	5140327	5140328	5140329	5140330	5140331	5140332	5140333	5140334	5140335	5140336	5140337	5140338
	Mast, E	12	12	12	14	14	14	14	14	16	16	16	16	16
	Boom, W	6	6	8	8	10	10	12	12	12	12	15	15	15
	Weight	1260	1280	1360	1715	1825	1850	1970	1995	2570	2605	2835	2885	2925

All dimensions shown in inches.

**WARNING:** Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

**WARNING:** Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



# 1 TON

## SERIES 514 360° INSERT MOUNTED FREE STANDING JIB CRANE

51-26

Height Under Boom in ft. B		SPAN in feet A												
		8	9	10	11	12	13	14	15	16	17	18	19	20
8	Prod. No.	5140339	5140340	5140341	5140342	5140343	5140344	5140345	5140346	5140347	5140348	5140349	5140350	5140351
	Mast, E	12	12	12	12	12	12	12	14	14	14	14	14	14
	Boom, W	10	10	12	12	15	15	15	15	18	18	18	18	18
	Weight	1030	1055	1160	1195	1300	1410	1435	1695	1950	2000	2052	2105	2155
9	Prod. No.	5140352	5140353	5140354	5140355	5140356	5140357	5140358	5140359	5140360	5140361	5140362	5140363	5140364
	Mast, E	12	12	12	12	12	12	12	14	14	14	14	14	16
	Boom, W	10	10	12	12	15	15	15	15	18	18	18	18	18
	Weight	1065	1090	1195	1225	1400	1445	1485	1740	1990	2045	2095	2105	2620
10	Prod. No.	5140365	5140366	5140367	5140368	5140369	5140370	5140371	5140372	5140373	5140374	5140375	5140376	5140377
	Mast, E	12	12	12	12	12	12	14	14	14	14	14	16	16
	Boom, W	10	10	12	12	15	15	15	15	18	18	18	18	18
	Weight	1100	1120	1225	1260	1435	1480	1745	1780	2035	2085	2140	2630	2675
11	Prod. No.	5140378	5140379	5130380	5140381	5140382	5140383	5140384	5140385	5140386	5140387	5140388	5140389	5140390
	Mast, E	12	12	12	12	12	14	14	14	14	14	16	16	16
	Boom, W	10	10	12	12	15	15	15	15	18	18	18	18	18
	Weight	1130	1155	1260	1295	1470	1750	1785	1825	2075	2130	2630	2690	2730
12	Prod. No.	5140391	5140392	5140393	5140394	5140395	5140396	5140397	5140398	5140399	5140400	5140401	5140402	5140403
	Mast, E	12	12	12	12	14	14	14	14	14	16	16	16	16
	Boom, W	10	10	12	12	15	15	15	15	18	18	18	18	18
	Weight	1165	1195	1290	1325	1750	1790	1830	1865	2120	2640	2695	2750	2790
13	Prod. No.	5140404	5140405	5140406	5140407	5140408	5140409	5140410	5140411	5140412	5140413	5140414	5140415	5140416
	Mast, E	12	12	12	12	14	14	14	16	16	16	16	16	16
	Boom, W	10	10	12	12	15	15	15	15	18	18	18	18	18
	Weight	1200	1215	1325	1360	1790	1835	1870	2415	2645	2705	2755	2815	2845
14	Prod. No.	5140417	5140418	5140419	5140420	5140421	5140422	5140423	5140424	5140425	5140426	5140427	5140428	5140429
	Mast, E	12	12	12	14	14	14	16	16	16	16	16	16	16
	Boom, W	10	10	12	12	15	15	15	15	18	18	18	18	18
	Weight	1230	1245	1365	1660	1835	1875	1915	2474	2710	2760	2815	2875	2910
15	Prod. No.	5140430	5140431	5140432	5140433	5140434	5140435	5140436	5140437	5140438	5140439	5140440	5140441	5140442
	Mast, E	12	12	12	14	14	14	16	16	16	16	16	16	18
	Boom, W	10	10	12	12	15	15	15	15	18	18	18	18	18
	Weight	1265	1280	1400	1700	1875	1920	2475	2535	2770	2820	2875	2935	3245
16	Prod. No.	5140443	5140444	5140445	5140446	5140447	5140448	5140449	5140450	5140451	5140452	5140453	5140454	5140455
	Mast, E	12	12	12	14	14	14	16	16	16	16	16	18	18
	Boom, W	10	10	12	12	15	15	15	15	18	18	18	18	18
	Weight	1300	1310	1430	1745	1920	1960	2535	2600	2830	2885	2935	3235	3310
17	Prod. No.	5140456	5140457	5140458	5140459	5140460	5140461	5140462	5140463	5140464	5140465	5140466	5140467	5140468
	Mast, E	12	12	14	14	14	16	16	16	16	16	18	18	18
	Boom, W	10	10	12	12	15	15	15	15	18	18	18	18	18
	Weight	1330	1345	1760	1785	1960	2555	2600	2660	2895	2945	3275	3300	3380
18	Prod. No.	5140469	5140470	5140471	5140472	5140473	5140474	5140475	5140476	5140477	5140478	5140479	5140480	5140481
	Mast, E	12	12	14	14	14	16	16	16	16	18	18	18	18
	Boom, W	10	10	12	12	15	15	15	15	18	18	18	18	18
	Weight	1365	1390	1800	1830	2005	2620	2660	2720	2955	3290	3340	3370	3445
19	Prod. No.	5140482	5140483	5140484	5140485	5140486	5140487	5140488	5140489	5140490	5140491	5140492	5140493	5140494
	Mast, E	12	12	14	14	16	16	16	16	16	18	18	18	18
	Boom, W	10	10	12	12	15	15	15	15	18	18	18	18	18
	Weight	1400	1410	1845	1890	2640	2680	2720	2785	3015	3360	3405	3440	3510
20	Prod. No.	5140495	5140496	5140497	5140498	5140499	5140500	5140501	5140502	5140503	5140504	5140505	5140506	5140507
	Mast, E	12	12	14	14	16	16	16	16	18	18	18	18	18
	Boom, W	10	10	12	12	15	15	15	15	18	18	18	18	18
	Weight	1430	1445	1885	1935	2695	2740	2785	2850	3375	3425	3475	3505	3580

All dimension shown in inches.

**WARNING:** Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

**WARNING:** Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.





# SERIES 514 360° INSERT MOUNTED FREE STANDING JIB CRANE

51-27 Issued 10-1-85

# 1-1/2 TON

Height Under Boom in ft. B		SPAN in feet A												
		8	9	10	11	12	13	14	15	16	17	18	19	20
8	Prod. No.	5140508	5140509	5140510	5140511	5140512	5140513	5140514	5140515	5140516	5140517	5140518	5140519	5140520
	Mast, E	12	12	14	14	14	14	14	14	16	16	16	16	16
	Boom, W	10	10	10	10	10	12	12	15	15	15	18	18	18
	Weight	1030	1055	1290	1310	1340	1455	1485	1690	2140	2180	2455	2720	2775
9	Prod. No.	5140521	5140522	5140523	5140524	5140525	5140526	5140527	5140528	5140529	5140530	5140531	5140532	5140533
	Mast, E	12	12	14	14	14	14	16	16	16	16	16	16	16
	Boom, W	10	10	10	10	10	12	12	15	15	15	18	18	18
	Weight	1065	1090	1335	1360	1390	1500	1960	2155	2200	2240	2520	2790	2845
10	Prod. No.	5140534	5140535	5140536	5140537	5140538	5140539	5140540	5140541	5140542	5140543	5140544	5140545	5140546
	Mast, E	12	12	14	14	16	16	16	16	16	16	16	16	16
	Boom, W	10	10	10	10	10	12	12	15	15	15	18	18	18
	Weight	1090	1120	1380	1400	1865	1975	2015	2215	2260	2700	2575	2855	2910
11	Prod. No.	5140547	5140548	5140549	5140550	5140551	5140552	5140553	5140554	5140555	5140556	5140557	5140558	5140559
	Mast, E	12	12	14	14	16	16	16	16	16	16	16	16	18
	Boom, W	10	10	10	10	10	12	12	15	15	15	18	18	18
	Weight	1125	1150	1420	1445	1925	2040	2075	2275	2320	2360	2635	2925	3530
12	Prod. No.	5140560	5140561	5140562	5140563	5140564	5140565	5140566	5140567	5140568	5140569	5140570	5140571	5140572
	Mast, E	12	12	14	14	16	16	16	16	16	16	18	18	18
	Boom, W	10	10	10	10	10	12	12	15	15	15	18	18	18
	Weight	1160	1185	1465	1485	1985	2100	2140	2340	2380	2425	2940	3575	3630
13	Prod. No.	5140573	5140574	5140575	5140576	5140577	5140578	5140579	5140580	5140581	5140582	5140583	5140584	5140585
	Mast, E	12	12	14	14	16	16	16	16	16	18	18	18	20
	Boom, W	10	10	10	10	10	12	12	15	15	15	18	18	18
	Weight	1190	1215	1510	1530	2045	2155	2185	2395	2440	2740	3005	3670	4230
14	Prod. No.	5140586	5140587	5140588	5140589	5140590	5140591	5140592	5140593	5140594	5140595	5140596	5140597	5140598
	Mast, E	12	12	14	16	16	16	18	18	18	18	18	18	20
	Boom, W	10	10	10	10	10	12	12	15	15	15	18	18	18
	Weight	1220	1250	1560	2075	2105	2220	2530	2755	2795	2830	3725	3770	4345
15	Prod. No.	5140599	5140600	5140601	5140602	5140603	5140604	5140605	5140606	5140607	5140608	5140609	5140610	5140611
	Mast, E	12	12	14	16	18	18	18	18	18	18	18	18	20
	Boom, W	10	10	10	10	10	12	12	15	15	15	18	18	18
	Weight	1250	1280	1600	2135	2435	2545	2575	2820	2860	2900	3825	4415	4465
16	Prod. No.	5140612	5140613	5140614	5140615	5140616	5140617	5140618	5140619	5140620	5140621	5140622	5140623	5140624
	Mast, E	12	14	14	16	18	18	18	18	18	18	18	20	20
	Boom, W	10	10	10	10	10	12	12	15	15	15	18	18	18
	Weight	1285	1615	1645	2195	2500	2630	2660	2890	2925	2965	3925	4530	4585
17	Prod. No.	5140625	5140626	5140627	5140628	5140629	5140630	5140631	5140632	5140633	5140634	5140635	5140636	5140637
	Mast, E	12	14	14	16	18	18	18	18	20	20	20	20	24
	Boom, W	10	10	10	10	10	12	12	15	15	15	18	18	18
	Weight	1315	1680	1680	2255	2565	2700	2725	2955	3330	3750	4025	4650	4710
18	Prod. No.	5140638	5140639	5140640	5140641	5140642	5140643	5140644	5140645	5140646	5140647	5140648	5140649	5140650
	Mast, E	12	14	16	16	18	18	18	20	20	20	20	20	24
	Boom, W	10	10	10	10	10	12	12	15	15	15	18	18	18
	Weight	1345	1700	2295	2315	2630	2750	2785	3765	3800	3850	4715	4770	4820
19	Prod. No.	5140651	5140652	5140653	5140654	5140655	5140656	5140657	5140658	5140659	5140660	5140661	5140662	5140663
	Mast, E	12	14	16	16	20	20	20	20	20	20	20	24	24
	Boom, W	10	10	10	10	10	12	12	15	15	15	18	18	18
	Weight	1380	1750	2355	2380	3500	3615	3645	3860	3900	3950	4835	4890	4940
20	Prod. No.	5140664	5140665	5140666	5140667	5140668	5140669	5140670	5140671	5140672	5140673	5140674	5140675	5140676
	Mast, E	12	14	16	16	20	20	20	20	20	20	20	24	24
	Boom, W	10	10	10	10	10	12	12	15	15	15	18	18	18
	Weight	1405	1790	2415	2535	3600	3715	3745	3960	4000	4050	4955	5005	5060

All dimensions shown in inches.

**WARNING:** Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

**WARNING:** Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



**2  
TON****SERIES 514 360° INSERT MOUNTED  
FREE STANDING JIB CRANE**

51-28

Height Under Boom in ft. B		SPAN in feet A												
		8	9	10	11	12	13	14	15	16	17	18	19	20
8	Prod. No.	5140677	5140678	5140679	5140680	5140681	5140682	5140683	5140684	5140685	5140686	5140687	5140688	5140689
	Mast, E	14	14	14	14	16	16	16	16	16	16	18	18	18
	Boom, W	10	10	12	12	12	15	15	15	18	18	18	18	18
	Weight	1270	1295	1395	1425	1870	2060	2100	2140	2370	2450	2725	2775	2830
9	Prod. No.	5140690	5140691	5140692	5140693	5140694	5140695	5140696	5140697	5140698	5140699	5140700	5140701	5140702
	Mast, E	14	14	14	14	16	16	16	16	16	16	18	18	18
	Boom, W	10	10	12	12	12	15	15	15	18	18	18	18	18
	Weight	1320	1345	1445	1475	1930	2125	2165	2200	2435	2515	2800	2845	2905
10	Prod. No.	5140703	5140704	5140705	5140706	5140707	5140708	5140709	5140710	5140711	5140712	5140713	5140714	5140715
	Mast, E	14	14	14	14	16	16	16	16	16	16	18	18	18
	Boom, W	10	10	12	12	12	15	15	15	18	18	18	18	18
	Weight	1365	1390	1490	1540	1990	2185	2220	2260	2505	2570	2865	2915	2975
11	Prod. No.	5140716	5140717	5140718	5140719	5140720	5140721	5140722	5140723	5140724	5140725	5140726	5140727	5140728
	Mast, E	14	14	14	14	16	16	16	16	16	16	18	18	20
	Boom, W	10	10	12	12	12	15	15	15	18	18	18	18	18
	Weight	1405	1430	1530	1560	2050	2245	2285	2325	2565	2635	2935	2985	3605
12	Prod. No.	5140729	5140730	5140731	5140732	5140733	5140734	5140735	5140736	5140737	5140738	5140739	5140740	5140741
	Mast, E	14	14	14	16	16	16	16	18	18	18	18	20	20
	Boom, W	10	10	12	12	12	15	15	15	18	18	18	18	18
	Weight	1450	1475	1575	2085	2115	2310	2345	2635	2875	2945	3005	3645	3705
13	Prod. No.	5140742	5140743	5140744	5140745	5140746	5140747	5140748	5140749	5140750	5140751	5140752	5140753	5140754
	Mast, E	14	14	14	16	16	16	16	18	18	18	18	20	24
	Boom, W	10	10	12	12	12	15	15	15	18	18	18	18	18
	Weight	1495	1520	1620	2145	2175	2365	2405	2700	2945	3010	3070	3750	4315
14	Prod. No.	5140755	5140756	5140757	5140758	5140759	5140760	5140761	5140762	5140763	5140764	5140765	5140766	5140767
	Mast, E	14	14	14	16	16	16	18	18	20	20	20	20	24
	Boom, W	10	10	12	12	12	15	15	15	18	18	18	18	18
	Weight	1545	1565	1670	2205	2235	2430	2735	2775	3585	3745	3805	3850	4440
15	Prod. No.	5140768	5140769	5140770	5140771	5140772	5140773	5140774	5140775	5140776	5140777	5140778	5140779	5140780
	Mast, E	14	14	14	16	18	18	18	18	20	20	20	24	24
	Boom, W	10	10	12	12	12	15	15	15	18	18	18	18	18
	Weight	1585	1610	1715	2265	2570	2765	2805	2845	3785	3845	3905	4505	4560
16	Prod. No.	5140781	5140782	5140783	5140784	5140785	5140786	5140787	5140788	5140789	5140790	5140791	5140792	5140793
	Mast, E	14	14	16	16	18	18	18	20	20	20	20	24	24
	Boom, W	10	10	12	12	12	18	18	15	18	18	18	18	18
	Weight	1630	1655	2300	2330	2640	2835	2870	3640	3870	3950	4005	4695	4680
17	Prod. No.	5140794	5140795	5140796	5140797	5140798	5140799	5140800	5140801	5140802	5140803	5140804	5140805	5140806
	Mast, E	14	14	16	16	18	18	18	20	20	20	20	24	24
	Boom, W	10	10	12	12	12	15	15	15	18	18	18	18	18
	Weight	1675	1700	2360	2390	2705	2900	2940	3740	3990	4050	4110	4750	4800
18	Prod. No.	5140807	5140808	5140809	5140810	5140811	5140812	5140813	5140814	5140815	5140816	5140817	5140818	5140819
	Mast, E	14	14	16	16	18	18	20	20	24	24	24	24	24
	Boom, W	10	10	12	12	12	15	15	15	18	18	18	18	18
	Weight	1715	1740	2420	2450	2775	2970	3805	3840	4710	4765	4815	4870	4925
19	Prod. No.	5140820	5140821	5140822	5140823	5140824	5140825	5140826	5140827	5140828	5140829	5140830	5140831	5140832
	Mast, E	14	16	16	16	18	18	20	24	24	24	24	24	24
	Boom, W	10	10	12	12	12	15	15	15	18	18	18	18	18
	Weight	1765	2375	2485	2515	2895	3040	3905	4590	4830	4885	4940	4990	5045
20	Prod. No.	5140833	5140834	5140835	5140836	5140837	5140838	5140839	5140840	5140841	5140842	5140843	5140844	5140845
	Mast, E	14	16	16	18	18	18	20	24	24	24	24	24	24
	Boom, W	10	10	12	12	12	15	15	15	18	18	18	18	18
	Weight	1810	2435	2540	2885	2915	3110	4005	4710	4950	5005	5060	5110	5165

All dimensions shown in inches.

**WARNING:** Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

**WARNING:** Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.





**SERIES 514 360° INSERT MOUNTED  
FREE STANDING JIB CRANE**  
51-29 Issued 10-1-85

**3  
TON**

Height Under Boom in ft. B		SPAN in feet A												
		8	9	10	11	12	13	14	15	16	17	18	19	20
8	Prod. No.	5140846	5140847	5140848	5140849	5140850	5140851	5140852	5140853	5140854	5140855	5140856	5140857	5140858
	Mast, E	16	16	16	16	18	18	18	20	20	20	20	24	24
	Boom, W	12	12	15	15	15	15	18	18	18	20	20	20	24
	Weight	1705	1735	1895	1935	2195	2240	2470	2985	3040	3300	3365	3830	4245
9	Prod. No.	5140859	5140860	5140861	5140862	5140863	5140864	5140865	5140866	5140867	5140868	5140869	5140870	5140871
	Mast, E	16	16	16	16	18	18	18	20	20	20	20	24	24
	Boom, W	12	12	15	15	15	15	18	18	18	20	20	20	24
	Weight	1765	1795	1960	1995	2265	2315	2540	3080	3140	3400	3465	3950	4370
10	Prod. No.	5140872	5140873	5140874	5140875	5140876	5140877	5140878	5140879	5140880	5140881	5140882	5140883	5140884
	Mast, E	16	16	16	16	18	18	18	20	20	20	20	24	24
	Boom, W	12	12	15	15	15	15	18	18	18	20	20	20	24
	Weight	1825	1855	2015	2050	2335	2380	2610	3185	3240	3495	3560	4070	4490
11	Prod. No.	5140885	5140886	5140887	5140888	5140889	5140890	5140891	5140892	5140893	5140894	5140895	5140896	5140897
	Mast, E	16	16	16	16	18	18	18	20	20	20	20	24	24
	Boom, W	12	12	15	15	15	15	18	18	18	20	20	20	24
	Weight	1885	1915	2085	2115	2400	2445	2675	3285	3340	3595	3660	4190	4610
12	Prod. No.	5140898	5140899	5140900	5140901	5140902	5140903	5140904	5140905	5140906	5140907	5140908	5140909	5140910
	Mast, E	16	16	16	16	18	18	18	20	20	20	20	24	24
	Boom, W	12	12	15	15	15	15	18	18	18	20	20	20	24
	Weight	1945	1975	2140	2175	2465	2515	2740	3385	3440	3700	3760	4310	4725
13	Prod. No.	5140911	5140912	5140913	5140914	5140915	5140916	5140917	5140918	5140919	5140920	5140921	5140922	5140923
	Mast, E	16	16	16	16	18	18	18	20	20	20	24	24	24
	Boom, W	12	12	15	15	15	15	18	18	18	20	20	20	24
	Weight	2010	2040	2200	2240	2530	2580	2810	3480	3535	3795	4370	4430	4845
14	Prod. No.	5140924	5140925	5140926	5140927	5140928	5140929	5140930	5140931	5140932	5140933	5140934	5140935	5140936
	Mast, E	16	16	16	16	18	20	20	20	24	24	24	24	24
	Boom, W	12	12	15	15	15	15	18	18	18	20	20	20	24
	Weight	2070	2100	2260	2300	2600	3300	3535	3580	4170	4425	4495	4550	4970
15	Prod. No.	5140937	5140938	5140939	5140940	5140941	5140942	5140943	5140944	5140945	5140946	5140947	5140948	5140949
	Mast, E	16	16	16	18	18	20	20	20	24	24	24	24	24
	Boom, W	12	12	15	15	15	15	18	18	18	20	20	20	24
	Weight	2135	2160	2320	2630	2665	3395	3635	3680	4290	4545	4610	4670	5090
16	Prod. No.	5140950	5140951	5140952	5140953	5140954	5140955	5140956	5140957	5140958	5140959	5140960	5140961	5140962
	Mast, E	16	16	16	18	20	20	20	24	24	24	24	24	24
	Boom, W	12	12	15	15	15	15	18	18	18	20	20	20	24
	Weight	2195	2225	2385	2700	3460	3500	3730	4350	4410	4665	4730	4790	5210
17	Prod. No.	5140963	5140964	5140965	5140966	5140967	5140968	5140969	5140970	5140971	5140972	5140973	5140974	5140975
	Mast, E	16	16	16	18	20	24	24	24	24	24	24	24	24
	Boom, W	12	12	15	15	15	15	18	18	18	20	20	20	24
	Weight	2255	2285	2445	2765	3560	4185	4420	4470	4525	4785	4850	4905	5325
18	Prod. No.	5140976	5140977	5140978	5140979	5140980	5140981	5140982	5140983	5140984	5140985	5140986	5140987	5140988
	Mast, E	16	16	16	18	20	24	24	24	24	24	24	24	24
	Boom, W	12	12	15	15	15	15	18	18	18	20	20	20	24
	Weight	2320	2345	2510	2830	3660	4305	4540	4590	4645	4900	4970	5025	5445
19	Prod. No.	5140989	5140990	5140991	5140992	5140993	5140994	5140995	5140996	5140997	5140998	5140999	5141000	5141001
	Mast, E	16	16	16	18	20	24	24	24	24	24	24	30	30
	Boom, W	12	12	15	15	15	15	18	18	18	20	20	20	24
	Weight	2380	2410	2570	2900	3755	4425	4660	4710	4765	5025	5090	6425	6875
20	Prod. No.	5141002	5141003	5141004	5141005	5141006	5141007	5141008	5141009	5141010	5141011	5141012	5141013	5141014
	Mast, E	16	16	18	18	20	24	24	24	24	24	30	30	30
	Boom, W	12	12	15	15	15	15	18	18	18	20	20	20	24
	Weight	2440	2470	2930	2965	3860	4635	4780	4825	4885	5145	6520	6580	7025

All dimensions shown in inches.

**WARNING:** Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

**WARNING:** Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



# 4 TON

## SERIES 514 360° INSERT MOUNTED FREE STANDING JIB CRANE

51-30

Height Under Boom in ft. B		SPAN in feet A												
		8	9	10	11	12	13	14	15	16	17	18	19	20
8	Prod. No.	5141015	5141016	5141017	5141018	5141019	5141020	5141021	5141022	5141023	5141024	5141025	5141026	5141027
	Mast, E	16	18	18	18	20	20	20	24	24	24	24	24	24
	Boom, W	15	15	15	15	18	18	18	20	20	20	24	24	24
	Weight	1810	2080	2120	2155	2830	2880	2935	3585	3655	3710	4100	4175	4245
9	Prod. No.	5141028	5141029	5141030	5141031	5141032	5141033	5141034	5141035	5141036	5141037	5141038	5141039	5141040
	Mast, E	16	18	18	18	20	20	20	24	24	24	24	24	24
	Boom, W	15	15	15	15	18	18	18	20	20	20	24	24	24
	Weight	1870	2150	2185	2225	2930	2980	3035	3705	3770	3830	4220	4295	4370
10	Prod. No.	5141041	5141042	5141043	5141044	5141045	5141046	5141047	5141048	5141049	5141050	5141051	5141052	5141053
	Mast, E	16	18	18	18	20	20	20	24	24	24	24	24	24
	Boom, W	15	15	15	15	18	18	18	20	20	20	24	24	24
	Weight	1935	2215	2250	2290	3030	3080	3135	3825	3890	3950	4335	4215	4490
11	Prod. No.	5141054	5141055	5141056	5141057	5141058	5141059	5141060	5141061	5141062	5141063	5141064	5151065	5141066
	Mast, E	16	18	18	18	20	20	20	24	24	24	24	24	24
	Boom, W	15	15	15	15	18	18	18	20	20	20	24	24	24
	Weight	1995	2280	2320	2355	3130	3180	3235	3940	4010	4065	4455	4530	4610
12	Prod. No.	5141067	5141068	5141069	5141070	5141071	5141072	5141073	5141074	5141075	5141076	5141077	5141078	5141079
	Mast, E	16	18	18	18	20	20	20	24	24	24	24	24	24
	Boom, W	15	15	15	15	18	18	18	20	20	20	24	24	24
	Weight	2055	2350	2385	2425	3230	3280	3335	4060	4130	4185	4575	4650	4725
13	Prod. No.	5141080	5141081	5141082	5141083	5141084	5141085	5141086	5141087	5141088	5141089	5141090	5141091	5141092
	Mast, E	16	18	18	18	20	20	20	24	24	24	24	24	24
	Boom, W	15	15	15	15	18	18	18	20	20	20	24	24	24
	Weight	2120	2415	2450	2490	3325	3375	3435	4185	4250	4310	4700	4775	4845
14	Prod. No.	5141093	5141094	5141095	5141096	5141097	5141098	5141099	5141100	5141101	5141102	5141103	5141104	5141105
	Mast, E	16	18	18	18	20	20	24	24	24	24	24	24	24
	Boom, W	15	15	15	15	18	18	18	20	20	20	24	24	24
	Weight	2180	2480	2520	2555	3430	3475	4085	4305	4370	4430	4815	4895	4970
15	Prod. No.	5141106	5141107	5141108	5141109	5141110	5141111	5141112	5141113	5141114	5141115	5141116	5141117	5141118
	Mast, E	16	18	18	18	20	24	24	24	24	24	24	24	30
	Boom, W	15	15	15	15	18	18	18	20	20	20	24	24	24
	Weight	2245	2545	2585	2620	3530	4145	4205	4420	4490	4545	4955	5010	6265
16	Prod. No.	5141119	5141120	5141121	5141122	5141123	5141124	5141125	5141126	5141127	5141128	5141129	5141130	5141131
	Mast, E	16	18	18	20	20	24	24	24	24	24	24	24	30
	Boom, W	15	15	15	15	18	18	18	20	20	20	24	24	24
	Weight	2305	2615	2650	3410	3625	4265	4320	4540	4610	4665	5055	5130	6420
17	Prod. No.	5141132	5141133	5141134	5141135	5141136	5141137	5141138	5141139	5141140	5141141	5141142	5141143	5141144
	Mast, E	16	18	18	20	20	24	24	24	24	30	30	30	30
	Boom, W	15	15	15	15	18	18	18	20	20	24	24	24	24
	Weight	2365	2680	2720	3510	3725	4385	4440	4660	4725	6345	6420	6495	6570
18	Prod. No.	5141145	5141146	5141147	5141148	5141149	5141150	5141151	5141152	5141153	5141154	5141155	5141156	5141157
	Mast, E	16	18	18	20	24	24	24	24	24	30	30	30	30
	Boom, W	15	15	15	15	18	18	18	20	20	24	24	24	24
	Weight	2430	2745	2785	3610	4460	4505	4565	4785	4850	6495	6570	6645	6720
19	Prod. No.	5141158	5141159	5141160	5141161	5141162	5141163	5141164	5141165	5141166	5141167	5141168	5141169	5141170
	Mast, E	16	18	18	24	24	24	24	24	30	30	30	30	30
	Boom, W	15	15	15	15	18	18	18	20	24	24	24	24	24
	Weight	2490	2815	2850	4340	4580	4625	4685	4400	6570	6645	6720	6800	6975
20	Prod. No.	5141171	5141172	5141173	5141174	5141175	5141176	5141177	5141178	5141179	5141180	5141181	5141182	5141183
	Mast, E	16	18	20	24	24	24	24	24	30	30	30	30	30
	Boom, W	15	15	15	15	18	18	18	20	24	24	24	24	24
	Weight	2550	2880	3770	4460	4700	4745	4800	5020	6720	6800	6875	6950	7025

All dimensions shown in inches.

**WARNING:** Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

**WARNING:** Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.





# SERIES 514 360° INSERT MOUNTED FREE STANDING JIB CRANE

51-31 Issued 10-1-85

**5  
TON**

Height Under Boom in ft. B		SPAN in feet A												
		8	9	10	11	12	13	14	15	16	17	18	19	20
8	Prod. No.	5141184	5141185	5141186	5141187	5141188	5141189	5141190	5141191	5141192	5141193	5141194	5141195	5141196
	Mast, E	18	20	20	20	24	24	24	24	24	30	30	30	30
	Boom, W	15	15	18	18	18	20	20	20	24	24	24	24	24
	Weight	2035	2535	2730	2775	3245	3465	3530	3585	3950	4940	5570	5670	5770
9	Prod. No.	5141197	5141198	5141199	5141200	5141201	5141202	5141203	5141204	5141205	5141206	5141207	5141208	5141209
	Mast, E	18	20	20	20	24	24	24	24	24	30	30	30	30
	Boom, W	15	15	18	18	18	20	20	20	24	24	24	24	24
	Weight	2100	2640	2830	2875	3365	3580	3650	3705	4065	5145	5715	5820	5920
10	Prod. No.	5141210	5141211	5141212	5141213	5141214	5141215	5141216	5141217	5141218	5141219	5141220	5141221	5141222
	Mast, E	18	20	20	20	24	24	24	24	24	30	30	30	30
	Boom, W	15	15	18	18	18	20	20	20	24	24	24	24	24
	Weight	2165	2735	2930	2975	3480	3700	3510	3825	4185	5300	5465	5970	6070
11	Prod. No.	5141223	5141224	5141225	5141226	5141227	5141228	5141229	5141230	5141231	5141232	5141233	5141234	5141235
	Mast, E	18	20	20	20	24	24	24	24	24	30	30	30	30
	Boom, W	15	15	18	18	18	20	20	20	24	24	24	24	24
	Weight	2235	2835	3025	3075	3600	3820	3885	3945	4305	5445	6015	6120	6220
12	Prod. No.	5141236	5141237	5141238	5141239	5141240	5141241	5141242	5141243	5141244	5141245	5141246	5141247	5141248
	Mast, E	18	20	20	20	24	24	24	24	24	30	30	30	30
	Boom, W	15	15	18	18	18	20	20	20	24	24	24	24	24
	Weight	2300	2935	3125	3175	3720	3940	4005	4060	4425	5595	6165	6270	6370
13	Prod. No.	5141249	5141250	5141251	5141252	5141253	5141254	5141255	5141256	5141257	5141258	5141259	5141260	5141261
	Mast, E	18	20	20	20	24	24	24	24	24	30	30	30	30
	Boom, W	15	15	18	18	18	20	20	20	24	24	24	24	24
	Weight	2365	3035	3235	3275	3840	4055	4125	4185	4540	5745	6315	6420	6515
14	Prod. No.	5141262	5141263	5141264	5141265	5141266	5141267	5141268	5141269	5141270	5141271	5141272	5141273	5141274
	Mast, E	18	20	20	20	24	24	24	24	24	30	30	30	30
	Boom, W	15	15	18	18	18	20	20	20	24	24	24	24	24
	Weight	2435	3135	3325	3370	3960	4180	4245	4305	4665	5895	6465	6570	6665
15	Prod. No.	5141275	5141276	5141277	5141278	5141279	5141280	5141281	5141282	5141283	5141284	5141285	5141286	5141287
	Mast, E	18	20	20	20	24	24	24	24	24	30	30	30	30
	Boom, W	15	15	18	18	18	20	20	20	24	24	24	24	24
	Weight	2510	3235	3425	3470	4080	4300	4365	4420	4785	6045	6615	6715	6810
16	Prod. No.	5141288	5141289	5141290	5141291	5141292	5141293	5141294	5141295	5141296	5141297	5141298	5141299	5141300
	Mast, E	18	20	20	20	24	24	24	24	30	30	30	30	30
	Boom, W	15	15	18	18	18	20	20	24	24	24	24	24	24
	Weight	2575	3335	3535	3570	4200	4420	4485	4825	6120	6195	6765	6870	6970
17	Prod. No.	5141301	5141302	5141303	5141304	5141305	5141306	5141307	5141308	5141309	5141310	5141311	5141312	5141313
	Mast, E	18	20	20	20	24	24	24	24	30	30	30	30	30
	Boom, W	15	15	18	18	18	20	20	24	24	24	24	24	24
	Weight	2640	3435	3625	3670	4320	4535	4600	4945	6270	6345	6915	7020	7120
18	Prod. No.	5141314	5141315	5141316	5141317	5141318	5141319	5141320	5141321	5141322	5141323	5141324	5141325	5141326
	Mast, E	18	20	20	24	24	24	24	24	30	30	30	30	30
	Boom, W	15	15	18	18	18	20	24	24	24	24	24	24	24
	Weight	2710	3535	3725	4385	4460	4660	4995	5070	6420	6500	7065	7170	7270
19	Prod. No.	5141327	5141328	5141329	5141330	5141331	5141332	5141333	5141334	5141335	5141336	5141337	5141338	5141339
	Mast, E	18	20	20	24	24	24	24	24	30	30	30	30	30
	Boom, W	15	15	18	18	18	20	24	24	24	24	24	24	24
	Weight	2775	3635	3825	4505	4580	4780	5110	5190	6570	6645	7215	7320	7420
20	Prod. No.	5141340	5141341	5141342	5141343	5141344	5141345	5141346	5141347	5141348	5141349	5141350	5141351	5141352
	Mast, E	18	20	20	24	24	24	24	30	30	30	30	30	30
	Boom, W	15	15	18	18	18	20	24	24	24	24	24	24	24
	Weight	2840	3730	3925	4620	4700	4900	5230	6645	6720	6800	7370	7470	7575

All dimensions shown in inches.

**WARNING:** Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

**WARNING:** Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



**1/4 to 5  
TONS**

**SERIES 514 360° INSERT MOUNTED  
FREE STANDING JIB CRANE**

51-32

**STANDARD EQUIPMENT SPECIFICATIONS**

**DESIGN FACTORS:** Standard capacity ratings shall represent the net rated load at the hook of any type of hoist with the same load rating installed on the jib crane having a hoist trolley weight within the established limits. The jib crane shall be so designed in the load-carrying parts that the calculated static stress in the material based on the rated load, shall not exceed 20% of the published average ultimate strength of the material. This limitation of stress provides a margin to allow for variations in the properties of materials, manufacturing and operation conditions, and design assumptions. Design load for stress calculations shall be based upon the capacity plus 15% for the weight of the hoist and trolley and an additional 25% for impact (capacity X 1.4). However, under no condition shall the crane be loaded beyond its rated capacity.

**BOOM:** Boom beam shall be constructed in accord with AISC specifications. Under full load the beam deflection shall not exceed 1/150 of the span. Design load for deflection calculation shall be based upon the capacity plus 15% for the weight of the hoist and trolley (capacity X 1.15). Boom beam shall be selected structural steel member and shall provide level and straight tread surfaces for the hoist trolleys. The beam shall have adequate lateral stiffness with minimum lateral moment of inertia of 1/20 that of the vertical moment of inertia. Boom shall be reinforced when required with channel capping for added strength and lateral stability.

**MAST:** The jib crane masts shall be constructed from structural pipe of proper diameter to give a minimum of deflection and sufficient wall strength to resist crushing and wear at the lower roller assembly.

**HEAD ASSEMBLY:** The head assembly shall be constructed of standard steel plate and designed to limit deflection and provide resistance to dislodgement in both outward and upward directions. The boom shall be attached to the jib head front and back through large, heavy duty plates and channels which will distribute boom loading forces through reinforcing channels to the lower roller assembly of the head, and through the bearing to the pivot pin on top of the jib mast. Jib heads made from plate only, without reinforcing channels, are not acceptable.

The head assembly shall allow for an enclosed collector assembly to be installed inside the head, and be able to be installed independently of the boom.

**BEARINGS:** The boom support top bearing shall be heavy-duty tapered roller bearing with a minimum average life of 10,000 hours. The bearing assembly shall have provision for a retaining pin in double shear above the top pivot bearing. The lower roller assembly bearing shall be adjustable and have two (2) large diameter rollers with each roller having a minimum of two (2) heavy-duty roller bearings operating on hardened bolts with provisions for pressure grease lubrication.

**PAINTING:** The jib crane shall be painted before shipment with a prime and finish coat of a lead-free alkyd air-dry enamel. The prime coat is a buff color with a semi-gloss finish. The finish coat is a yellow oxide with a full gloss finish.

**OPERATING AND MAINTENANCE:** Proper erection instructions, parts list and maintenance instructions will be furnished with the crane.

**WARNING:** Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

**WARNING:** Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



**Acco Products Division**

A division of Babcock Industries Inc.

1110 E. Princess Street, York, PA 17403  
Telephone 717 843-1523  
FAX 717 846-5387 Telex 84-0411

12140 Bellflower Blvd., Downey, CA 90241  
Telephone 213 862-8101 Telex 69-8196

A member of the Acco Material Handling Group

**Babcock**

© Acco Babcock Inc. 1987  
Printed in U.S.A.





## Acco Products Division

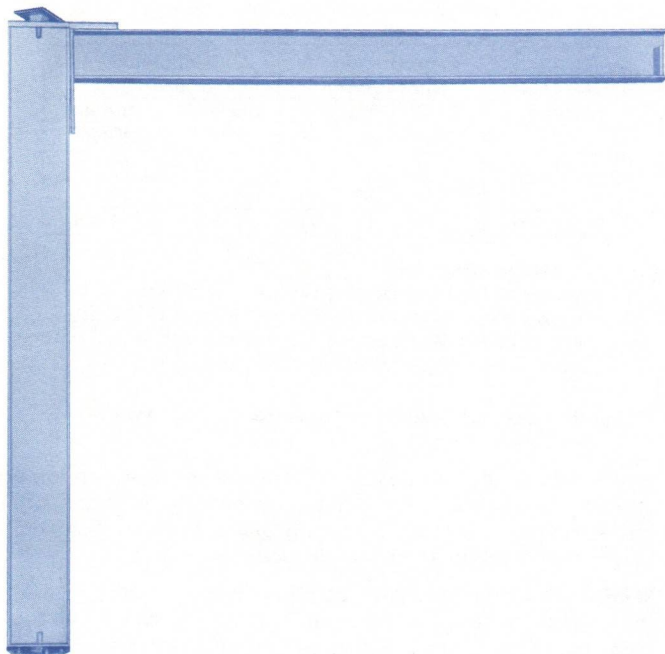
A division of Babcock Industries Inc.

Issued 10-1-85  
Supersedes 3-1-85

51-33

### **SERIES 515** **MAST TYPE CANTILEVER** **JIB CRANE**

**CAPACITIES 1/2 to 5 TONS**  
**SPANS 8 to 20 FEET**



#### **CONSTRUCTION FEATURES**

**TOP BEARING ASSEMBLY:** A self-aligning uni-ball radial bearing fitted to the pivot pin provides both a rigid connection and ease of rotation. The bearing is pressed into a machined housing welded to the top mounting plate, which is bolted to the supporting structure. A grease fitting enables proper field lubrication.

**BOTTOM BEARING ASSEMBLY:** A machined housing welded to the bottom mounting plate which is bolted to the floor is utilized to provide a quality connection and easy installation. A bronze olite bushing and thrust washer provide easy rotation with minimal drift. The bearing assembly is self-lubricating and operates ideally under heavy loads at moderate speeds.

**MAST BOOM:** The mast is a wide flange steel beam, and the boom is a steel I beam. Stiffeners are placed at critical stress points in the mast, and removable trolley stops are bolted to the boom. The mast boom connection is made using one plate welded to the top of the mast and bolted to the boom, and a second plate welded to the inside end of the boom and bolted to the mast.

The Acco Series 515 Mast Type Cantilever Jib Crane is an excellent choice where full 360° rotation is desired to provide complete work area coverage, as long as adequate structural support is available to stabilize the crane mast at the top. Because of the top and bottom mounting, the mast type crane exerts the least amount of force on the supporting structure of any of our five basic jib crane designs. No special foundation requirements are necessary for the installation of this jib crane.

The cantilever beam design of the 515 provides a maximum amount of overhead lift. Full 360° rotation is possible when combined with a hand operated hoist. When a powered hoist is used, provision must be made to limit rotation to less than 360°.

All fittings are of structural steel components manufactured to avoid reliance upon casting or tension welds. The components are bolted together to allow for ease of installation.



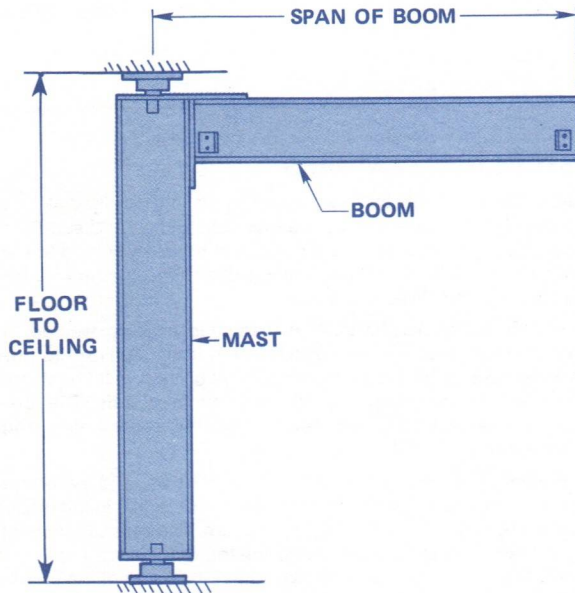
**1/4 to 5  
TONS**

**SERIES 515 MAST TYPE CANTILEVER  
JIB CRANE**

51-34

**HOW TO SPECIFY ACCO SERIES 515 BASE MOUNTED  
MAST TYPE JIB CRANE.**

1. **Determine the capacity, span of boom, and floor to ceiling height.**



2. **Specify proper product number** in regards to jib crane capacity, span, and floor to ceiling height in the following pages.
3. **Specify the boom location.** Two models of boom supports are available. The standard full cantilever allows the boom closer to overhead support thus allowing maximum amount of hoist lift. The optional drop cantilever model provides the advantage of being able to top stabilize the unit and bring the boom down below any overhead obstruction. It can be dropped to any desirable dimension beyond the minimum.
4. **Specify size of mast and boom.** The E & W number designates size of mast, E, and boom, W. By using boom size, W, the flange width may be found in the following chart.

STANDARD BOOM DATA		
Boom Height in.	Beam Size	Flange Width in.
6	6S12.5 #	3 3/8
7	7S15.3 #	3 5/8
8	8S18.4 #	4
10	10S25.4 #	4 5/8
12	12S31.8 #	5
15	15S42.9 #	5 1/2
18	18S54.7 #	6
20	20S66 #	6 1/4
24	24S80 #	7

5. **Specify the pivot number** Mast type jib cranes are designed with a standard range of top and bottom pivot bracket assemblies. By using this number, minimum overhead clearance, bolt pattern, and size of base plate may be found in the following chart.

Pivot Number	Pivot Bracket Dimensions				Minimum D Dimension	
	F in.	G in.	H in.	J in.	Standard Model	Optional Model
15	7	9	10	12	3 3/4	13 5/8
20	7	10	10	13	4 1/4	14 1/8
25	9	12	12	15	4 3/4	14 5/8

6. **Select desired Acco hoist.**  
 Section 10 for Hand Operated Hoist, 1/4 to 5 tons  
 Section 20 for *Wright-way*® Electric Hoist, 1/4 to 2 tons  
 Section 21 for *Wright-way* Air Operated Hoist, 1/4 to 2 tons  
 Section 30 for *Work-rated*® Electric Hoist, 1 to 5 tons

7. **Specify other modifications and accessories.** See page 51-41 for further specifications.

**WARNING:** Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

**WARNING:** Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.

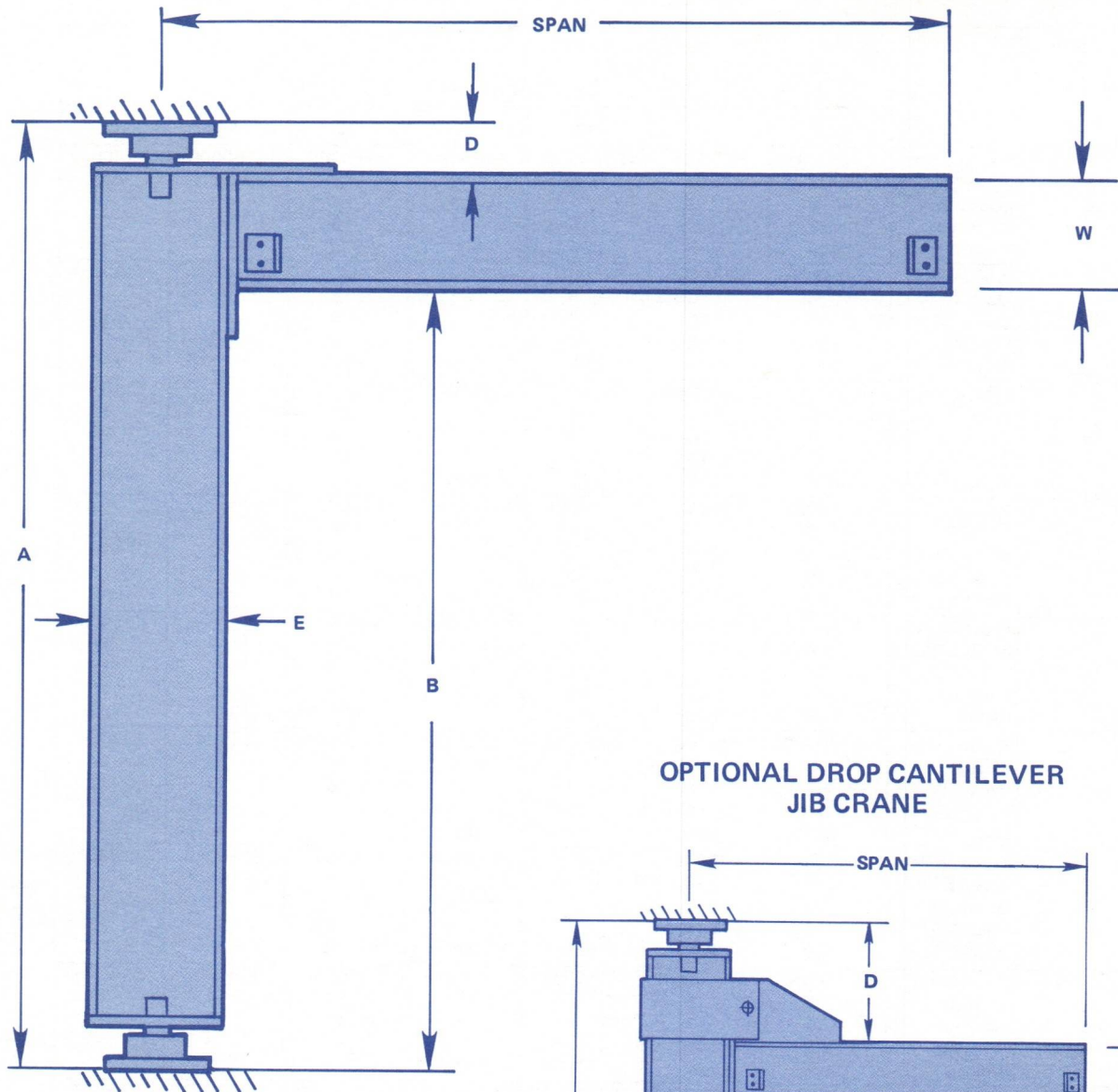




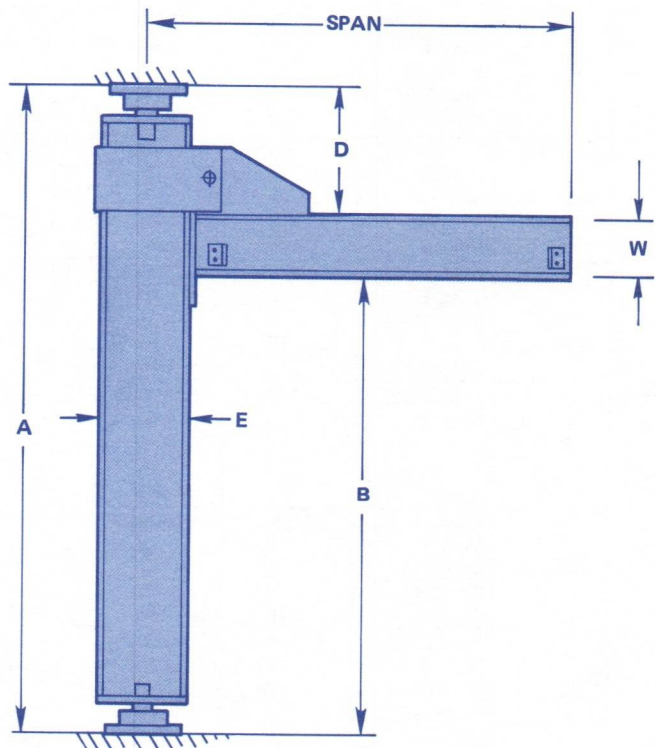
**SERIES 515 MAST TYPE CANTILEVER  
JIB CRANE**

51-35 Issued 10-1-85

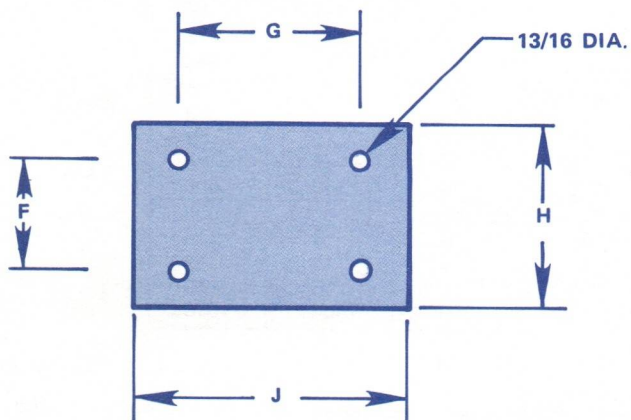
**1/4 to 5  
TONS**



**OPTIONAL DROP CANTILEVER  
JIB CRANE**



**MOUNTING BOLT PATTERN**



All dimensions shown in inches.



# 1/4 to 1/2 TONS

## SERIES 515 MAST TYPE CANTILEVER JIB CRANE

51-36

Capacity in Tons	Floor to Ceiling A ft.		Span in feet						
			8	10	12	14	16	18	20
1/4	10	Product No. Mast, E Boom, W Pivot No. Weight	5150001 8 6 15 430	5150002 8 6 15 465	5150003 8 7 15 525	5150004 8 8 15 600	5150005 8 8 15 635	5150006 10 10 15 865	5150007 10 10 15 920
	12	Product No. Mast, E Boom, W Pivot No. Weight	5150008 8 6 15 475	5150009 8 6 15 500	5150010 8 7 15 560	5150011 8 8 15 630	5150012 8 8 15 670	5150013 10 10 15 910	5150014 10 10 15 960
	14	Product No. Mast, E Boom, W Pivot No. Weight	5150015 8 6 15 510	5150016 8 6 15 535	5150017 8 7 15 590	5150018 8 8 15 665	5150019 10 8 15 790	5150020 10 10 15 960	5150021 10 10 15 1000
	16	Product No. Mast, E Boom, W Pivot No. Weight	5150022 8 6 15 545	5150023 8 6 15 570	5150024 8 7 15 625	5150025 8 8 15 700	5150026 10 8 15 830	5150027 10 10 15 995	5150028 10 10 15 1045
	18	Product No. Mast, E Boom, W Pivot No. Weight	5150029 8 6 15 575	5150030 8 6 15 600	5150031 8 7 15 660	5150032 8 8 15 740	5150033 10 8 15 870	5150034 10 10 15 1035	5150035 10 10 15 1085
	20	Product No. Mast, E Boom, W Pivot No. Weight	5150036 8 6 15 610	5150037 8 6 15 635	5150038 8 7 15 695	5150039 10 8 15 880	5150040 10 8 15 915	5150041 10 10 15 1075	5150042 14 10 15 1340
1/2	10	Product No. Mast, E Boom, W Pivot No. Weight	5150043 8 6 15 709	5150044 10 7 15 810	5150045 10 8 15 625	5150046 14 10 15 880	5150047 14 10 15 930	5150048 14 12 15 1095	5150049 14 12 15 1160
	12	Product No. Mast, E Boom, W Pivot No. Weight	5150050 8 6 15 475	5150051 10 7 15 600	5150052 10 8 15 670	5150053 14 10 15 940	5150054 14 10 15 990	5150055 14 12 15 1155	5150056 14 12 15 1220
	14	Product No. Mast, E Boom, W Pivot No. Weight	5150057 8 6 15 510	5150058 10 7 15 640	5150059 10 8 15 715	5150060 14 10 15 1000	5150061 14 10 15 1050	5150062 14 12 15 1215	5150063 14 12 15 1280
	16	Product No. Mast, E Boom, W Pivot No. Weight	5150064 8 6 15 545	5150065 10 7 15 685	5150066 10 8 15 755	5150067 14 10 15 1060	5150068 14 10 15 1110	5150069 14 12 15 1275	5150070 14 12 15 1345
	18	Product No. Mast, E Boom, W Pivot No. Weight	5150071 8 6 15 575	5150072 10 7 15 730	5150073 10 8 15 800	5150074 14 10 15 1120	5150075 14 10 15 1170	5150076 14 12 15 1340	5150077 14 12 15 1405
	20	Product No. Mast, E Boom, W Pivot No. Weight	5150078 10 6 15 720	5150079 10 7 15 775	5150080 10 8 15 840	5150081 14 10 15 1180	5150082 14 10 15 1230	5150083 14 12 15 1400	5150084 16 12 15 1610

All dimensions shown in inches.

**WARNING:** Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

**WARNING:** Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.





# SERIES 515 MAST TYPE CANTILEVER JIB CRANES

51-37 Issued 10-1-85

**1 to 1-1/2  
TON**

Capacity in Tons	Floor to Ceiling A ft.		Span in feet						
			8	10	12	14	16	18	20
1	10	Product No. Mast, E Boom, W Pivot No. Weight	5150085 10 8 15 550	5150086 14 10 15 780	5150087 14 10 15 830	5150088 14 12 15 970	5150089 14 12 15 1035	5150090 16 15 20 1405	5150091 16 15 20 1495
	12	Product No. Mast, E Boom, W Pivot No. Weight	5150092 10 8 15 595	5150093 14 10 15 840	5150094 14 10 15 890	5150095 14 12 15 1030	5150096 14 12 15 1095	5150097 16 15 15 1460	5150098 16 15 20 1565
	14	Product No. Mast, E Boom, W Pivot No. Weight	5150099 10 8 15 635	5150100 14 10 15 900	5150101 14 10 15 950	5150102 14 12 15 1090	5150103 14 12 15 1155	5150104 16 15 15 1530	5150105 16 15 15 1615
	16	Product No. Mast, E Boom, W Pivot No. Weight	5150106 10 8 15 680	5150107 14 10 15 960	5150108 14 10 15 1010	5150109 14 12 15 1150	5150110 16 12 15 1340	5150111 16 15 15 1605	5150112 18 15 15 1945
	18	Product No. Mast, E Boom, W Pivot No. Weight	5150113 14 8 15 910	5150114 14 10 15 1020	5150115 14 10 15 1070	5150116 16 12 15 1350	5150117 16 12 15 1410	5150118 18 15 15 1955	5150119 18 15 15 2045
	20	Product No. Mast, E Boom, W Pivot No. Weight	5150120 14 8 15 910	5150121 14 10 15 1080	5150122 14 10 15 1130	5150123 16 12 15 1420	5150124 16 12 15 1485	5150125 18 15 15 2055	5150126 18 15 15 2145
1-1/2	10	Product No. Mast, E Boom, W Pivot No. Weight	5150127 14 10 15 730	5150128 14 10 15 780	5150129 14 12 15 925	5150130 16 15 20 1230	5150131 16 15 20 1320	5150132 18 18 20 1790	5150133 18 18 20 1890
	12	Product No. Mast, E Boom, W Pivot No. Weight	5150134 14 10 15 790	5150135 14 10 15 840	5150136 14 12 15 965	5150137 16 15 20 1310	5150138 16 15 20 1395	5150139 18 18 20 1890	5150140 18 18 20 2000
	14	Product No. Mast, E Boom, W Pivot No. Weight	5150141 14 10 15 850	5150142 14 10 15 900	5150143 14 12 15 1025	5150144 16 15 15 1360	5150145 18 15 15 1685	5150146 18 18 20 1990	5150147 18 18 20 2100
	16	Product No. Mast, E Boom, W Pivot No. Weight	5150148 14 10 15 910	5150149 14 10 15 960	5150150 16 12 15 1210	5150151 16 15 15 1430	5150152 18 15 15 1770	5150153 18 18 20 2090	5150154 18 18 20 2200
	18	Product No. Mast, E Boom, W Pivot No. Weight	5150155 14 10 15 970	5150156 16 10 15 1150	5150157 16 12 15 1280	5150158 18 15 15 1785	5150159 18 15 15 1870	5150160 18 18 15 2170	5150161 18 18 20 2300
	20	Product No. Mast, E Boom, W Pivot No. Weight	5150162 14 10 15 1030	5150163 16 10 15 1225	5150164 16 12 15 1355	5150165 18 15 15 1885	5150166 18 15 15 1970	5150167 18 18 15 2270	5150168 21 18 15 2650

All dimensions shown in inches.

**WARNING:** Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

**WARNING:** Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



# 2 to 3 TONS

## SERIES 515 MAST TYPE CANTILEVER JIB CRANES

51-38

Capacity in Tons	Floor to Ceiling A ft.		Span in feet						
			8	10	12	14	16	18	20
2	10	Product No.	5150169	5150170	5150171	5150172	5150173	5150174	5150175
		Mast, E	14	14	16	16	18	18	21
		Boom, W	10	12	15	15	18	18	20
		Pivot No.	15	20	20	20	20	25	25
		Weight	730	865	1145	1230	1675	1810	2280
		Product No.	5150176	5150177	5150178	5150179	5150180	5150181	5150182
	12	Mast, E	14	14	16	16	18	18	21
		Boom, W	10	12	15	15	18	18	20
		Pivot No.	15	20	20	20	20	20	20
		Weight	790	925	1215	1310	1740	1890	2385
	14	Product No.	5150183	5150184	5150185	5150186	5150187	5150188	5150189
		Mast, E	14	16	16	18	18	18	21
		Boom, W	10	12	15	15	18	18	20
		Pivot No.	15	15	20	20	20	20	20
		Weight	850	1070	1295	1600	1880	1990	2510
	16	Product No.	5150190	5150191	5150192	5150193	5150194	5150195	5150196
		Mast, E	14	16	18	18	18	18	21
		Boom, W	10	12	15	15	18	18	20
		Pivot No.	15	15	15	20	20	20	20
		Weight	910	1145	1595	1700	1980	2090	2635
	18	Product No.	5150197	5150198	5150199	5150200	5150201	5150202	5150203
		Mast, E	16	16	18	18	18	21	21
		Boom, W	10	12	15	15	18	18	20
		Pivot No.	15	15	15	15	20	20	20
		Weight	1100	1215	1695	1785	2080	2435	2765
	20	Product No.	5150204	5150205	5150206	5150207	5150208	5150209	5150210
		Mast, E	16	18	18	18	18	21	21
		Boom, W	10	12	15	15	18	18	20
		Pivot No.	15	15	15	15	15	20	20
		Weight	1175	1600	1800	1885	2160	2560	2890
3	10	Product No.	5150211	5150212	5150213	5150214	5150215	5150216	5150217
		Mast, E	16	16	18	18	21	21	21
		Boom, W	12	15	15	18	20	20	24
		Pivot No.	20	20	20	25	25	25	25
		Weight	885	1060	1315	1585	2015	2145	2575
	12	Product No.	5150218	5150219	5150220	5150221	5150222	5150223	5150224
		Mast, E	16	16	18	18	21	21	21
		Boom, W	12	15	15	18	20	20	24
		Pivot No.	20	20	20	25	25	25	25
		Weight	955	1130	1415	1685	2140	2270	2705
	14	Product No.	5150225	5150226	5150227	5150228	5150229	5150230	5150231
		Mast, E	16	18	18	18	21	21	21
		Boom, W	12	15	15	18	20	20	24
		Pivot No.	20	20	20	20	25	25	25
		Weight	1030	1430	1515	1770	2265	2400	2830
	16	Product No.	5150232	5150233	5150234	5150235	5150236	5150237	5150238
		Mast, E	18	18	18	18	21	21	24
		Boom, W	12	15	15	18	20	20	24
		Pivot No.	15	20	20	20	20	25	25
		Weight	1335	1530	1615	1870	2370	2525	3200
	18	Product No.	5150239	5150240	5150241	5150242	5150243	5150244	5150245
		Mast, E	18	18	18	21	21	24	24
		Boom, W	12	15	15	18	20	20	24
		Pivot No.	15	15	20	20	20	20	25
		Weight	1435	1715	1720	2210	2495	2910	3360
	20	Product No.	5150246	5150247	5150248	5150249	5150250	5150251	5150252
		Mast, E	18	18	18	21	21	24	24
		Boom, W	12	15	15	18	20	20	24
		Pivot No.	15	15	20	20	20	20	25
		Weight	1535	1815	1820	2340	2620	3060	3510

All dimensions shown in inches.

**WARNING:** Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

**WARNING:** Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.





# SERIES 515 MAST TYPE CANTILEVER JIB CRANE

51-39 Issued 10-1-85

**4 to 5  
TONS**

Capacity in Tons	Floor to Ceiling A ft.		Span in feet						
			8	10	12	14	16	18	20
4	10	Product No. Mast, E Boom, W Pivot No. Weight	5150253 18 15 20 1140	5150254 18 15 25 1245	5150255 18 18 25 1475	5150256 21 20 25 1885	5150257 21 20 25 2035	5150258 21 24 25 2435	5150259 24 24 25 3285
	12	Product No. Mast, E Boom, W Pivot No. Weight	5150260 18 15 20 1240	5150261 18 15 25 1350	5150262 18 18 25 1575	5150263 21 20 25 2010	5150264 21 20 25 2140	5150265 21 24 25 2560	5150266 24 24 25 3440
	14	Product No. Mast, E Boom, W Pivot No. Weight	5150267 18 15 20 1345	5150268 18 15 20 1430	5150269 18 18 25 1675	5150270 21 20 25 2135	5150271 21 20 25 2265	5150272 24 24 25 2890	5150273 24 24 25 3595
	16	Product No. Mast, E Boom, W Pivot No. Weight	5150274 18 15 20 1445	5150275 18 15 20 1530	5150276 21 18 20 1980	5150277 21 20 25 2260	5150278 24 20 25 2640	5150279 24 24 25 3040	5150280 24 24 25 3730
	18	Product No. Mast, E Boom, W Pivot No. Weight	5150281 18 15 20 1545	5150282 18 15 20 1630	5150283 21 18 20 2100	5150284 24 20 20 2645	5150285 24 20 25 2800	5150286 24 24 25 3195	5150287 24 24 25 4230
	20	Product No. Mast, E Boom, W Pivot No. Weight	5150288 18 15 20 1645	5150289 21 15 20 2000	5150290 21 18 20 2225	5150291 24 20 20 2800	5150292 24 20 25 2950	5150293 27 24 25 3740	5150294 27 24 25 4425
5	10	Product No. Mast, E Boom, W Pivot No. Weight	5150295 18 18 25 1255	5150296 18 18 25 1365	5150297 21 20 25 1755	5150298 21 20 25 2005	5150299 24 24 25 2440	5150300 24 24 25 3075	5150301 24 24 25 3285
	12	Product No. Mast, E Boom, W Pivot No. Weight	5150302 18 18 25 1360	5150303 18 18 25 1465	5150304 21 20 25 1880	5150305 21 20 25 2025	5150306 24 24 25 2590	5150307 24 24 25 3225	5150308 24 24 25 3440
	14	Product No. Mast, E Boom, W Pivot No. Weight	5150309 18 18 20 1440	5150310 18 18 25 1565	5150311 21 20 25 2005	5150312 21 20 25 2155	5150313 24 24 25 2750	5150314 24 24 25 3380	5150315 27 24 25 3875
	16	Product No. Mast, E Boom, W Pivot No. Weight	5150316 18 18 20 1540	5150317 21 18 20 1870	5150318 21 20 25 2125	5150319 24 20 25 2510	5150320 24 24 25 2880	5150321 27 24 25 3830	5150322 27 24 25 4065
	18	Product No. Mast, E Boom, W Pivot No. Weight	5150323 18 18 20 1745	5150324 21 18 20 1995	5150325 24 20 20 2515	5150326 24 20 25 2665	5150327 27 24 25 3385	5150328 27 24 25 4010	5150329 27 24 25 4250
	20	Product No. Mast, E Boom, W Pivot No. Weight	5150330 21 18 20 2010	5150331 21 18 20 2105	5150332 24 20 20 2665	5150333 24 20 25 2820	5150334 27 24 25 3575	5150335 27 24 25 4205	5150336 27 24 25 4445

All dimensions shown in inches.

**WARNING:** Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

**WARNING:** Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



**1/2 to 5  
TONS**

**SERIES 515 MAST TYPE CANTILEVER  
JIB CRANE**

51-40

**STANDARD EQUIPMENT SPECIFICATIONS**

**DESIGN FACTORS:** Standard capacity ratings shall represent the net rated load at the hook of any type of hoist with the same load rating installed on the jib crane having a hoist trolley weight within the established limits. The jib crane shall be so designed in the load-carrying parts that the calculated static stress in the material based on the rated load, shall not exceed 20% of the published average ultimate strength of the material. This limitation of stress provides a margin to allow for variations in the properties of materials, manufacturing and operation conditions, and design assumptions. Design load for stress calculations shall be based upon the capacity plus 15% for the weight of the hoist and trolley and an additional 25% for impact (capacity X 1.4). However, under no condition shall the crane be loaded beyond its rated capacity.

**BOOM:** Boom beam shall be constructed in accord with AISC specifications. Under full load the beam deflection shall not exceed 1/150 of the span. Design load for deflection calculation shall be based upon the capacity plus 15% for the weight of the hoist and trolley (capacity X 1.15). Boom beam shall be selected structural steel member and shall provide level and straight tread surfaces for the hoist trolleys. The beam shall have adequate lateral stiffness with minimum lateral moment of inertia of 1/20 that of the vertical moment of inertia.

**BEARINGS:** The upper rotating assembly is to be furnished with a lubricated heavy-duty self-aligning radial loading ball bearing. The top bearing assembly will be so constructed as to accommodate a minimum of one inch (1") deflection from the overhead runway or top supporting truss, without transferring any building loading to the jib mast and allow same to continue rotating and operate freely.

The lower rotating assembly is to be furnished with and oilite bronze bushing and an oilite thrust washer to remove the necessary for internal lubrication.

**PAINTING:** The jib crane shall be painted before shipment with a prime and finish coat of a lead-free alkyd air-dry enamel. The prime coat is a buff color with a semi-gloss finish. The finish coat is a yellow oxide with a full gloss finish.

**OPERATING AND MAINTENANCE:** Proper erection instructions, parts list and maintenance instructions will be furnished with the crane.

**WARNING:** Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

**WARNING:** Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



**Acco Products Division**

A division of Babcock Industries Inc.

1110 E. Princess Street, York, PA 17403  
Telephone 717 843-1523  
FAX 717 846-5387 Telex 84-0411

12140 Bellflower Blvd., Downey, CA 90241  
Telephone 213 862-8101 Telex 69-8196

A member of the Acco Material Handling Group

**Babcock**

© Acco Babcock Inc. 1987  
Printed in U.S.A.





# Acco Products Division

A division of Babcock Industries Inc.

Issued 10-1-85  
Supersedes 2-1-84

51-41

## SERIES 510 JIB CRANES MODIFICATIONS AND ACCESSORIES

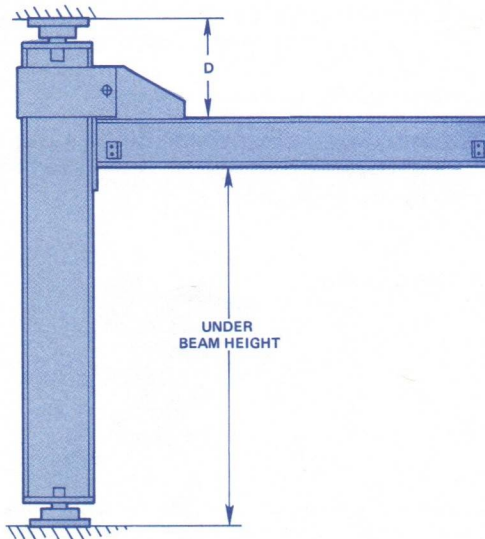
The term "STANDARD" indicates that the item is included in the base price.

The term "OPTIONAL" indicates that the item can be applied to the hoist at additional cost. Price additional can be found in Master Catalog Section 151.

The term "ON APPLICATION" indicates that the item can be applied to the hoist and nearest Hoist and & Crane Division of Acco Industries Inc. representative must be contacted for additions additional cost.

### A BOOM

#### SERIES 515—DROP CANTILEVER CONNECTION:



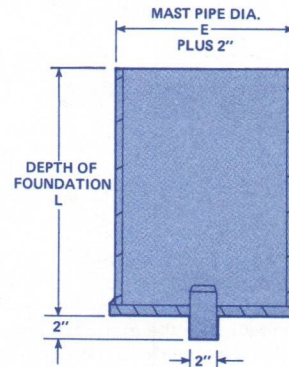
Drop cantilever connection is available on Series 515 jib crane as optional equipment. The "D" dimension has minimum dimension, but can be dropped beyond the minimum. Specify drop cantilever connection and desired underboom height.

### B MAST

**SERIES 513 ANCHOR BOLTS:** Anchor bolts and base plate template are available as optional equipment on series 513 jib crane foundations. Specify anchor bolt, quantity, diameter, and foundation depth,

Quan. 6 - 1" dia. bolts for 3'-0" foundation.  
Quan. 6 - 1" dia. bolts for 4'-0" foundation.  
Quan. 6 - 1 1/4" dia. bolts for 3'-0" foundation.  
Quan. 6 - 1 1/4" dia. bolts for 4'-0" foundation.  
Quan. 12 - 1 1/4" dia. bolts for 4'-0" foundation.  
Quan. 12 - 1 1/4" dia. bolts for 5'-0" foundation.

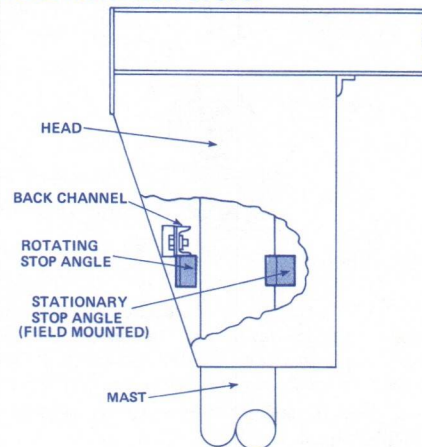
#### INSERT MOUNTED SLEEVE:



Series 514 insert mounted jib cranes are available with an optional insert mounted sleeve. Forming of jib crane footing is simplified with elimination of anchor bolts and one pouring. Installation is easy with four plumbing wedges provided by others. Price of insert mounted sleeve is an addition to price of the series 514 jib crane. Specify insert mounted sleeve.

### C ROTATION

#### MECHANICAL ROTATION STOPS:

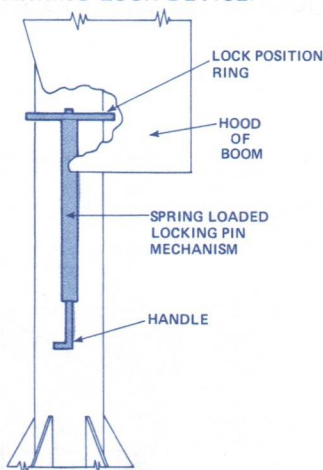


Mechanical rotation stops limits rotation on Series 513 and 514 free standing jib cranes to desired degrees. Angle stop mounts on back channel on jib head. Parts furnished loose for field mounting on mast.

Specify mechanical rotation stops.

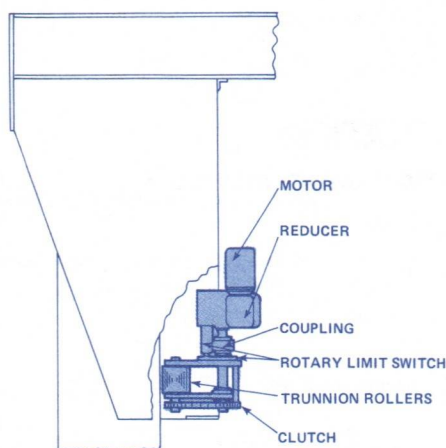


### MULTI-POSITION PARKING LOCK DEVICE:



Assembly designed for Series 513 and 514 free standing jib cranes with spring mounted pin to physically lock jib at 30° intervals. Engaging mechanism is mounted on head of the boom with locking pin assembly. The locking pin ring is welded to the mast. Designed for outdoor application or top of building where there is nothing to stop boom's rotation. Multi-position parking lock device is **NOT TO BE USED UNDER LOAD, STRICTLY USED TO PREVENT ROTATION** of head and boom. Specify multi-position parking lock device.

### POWER ROTATION:



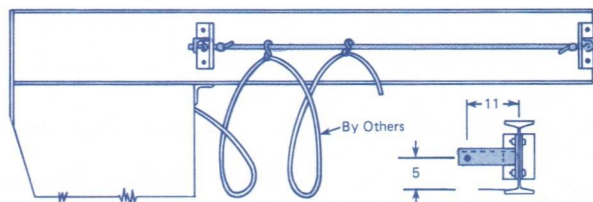
Series 511, 512, 513, 514, and 515 jib cranes are available on application with motorized swing. (Series 513 & 514 shown). These units are for applications where operator does not have access to the load or allowed to exert more than 40 pounds of force to move the load.

The motorized unit drives the lower trunnion rollers in the head of Series 513 and 514 jib cranes.

These units are complete with collector assembly, reducer with slip clutch, motor with brake, reversing starter and transformer. Standard speed is 1/2 RPM; 1/4 to 1 RPM is considered workable range.

## D ELECTRIFICATION

### FESTOONED TAGLINE HARDWARE:



Economical optional equipment for runs on all series jib cranes. Power supply cable is supported by messenger wire and "S" hooks. Power supply cable and junction box are not included. Hooks spaced at 4 foot intervals keeps cable from looping more than 2 foot below messenger wire. Specify additional length of power cable on hoist when ordering. The kit contains the following:

- "S" hooks
- Support angles (weld to end stops)
- Cable clamps
- Wire rope
- Eyebolt with nuts

To order specify festoon tagline and length of system.

**FLAT WIRE CONDUCTOR CABLE:** Hoist can be powered with flat wire supply cable as optional equipment. The cable is 4 conductor #12 wire.

Specify flat wire conductor cable and desired length.

**FLAT WIRE CORD GRIP CONNECTORS:** Recommended for use at all times with 4 conductor #12 flat wire conductor cable. Two per set. Specify flat wire cord grip connectors.

### FLAT WIRE TROLLEYS:



Recommended for support of flat wire electrical conductor cable. The two wheel trolleys have steel side plates, nylon cable saddle and hardware. Five trolleys per set.

Specify wire rope trolleys and the number of sets.

### FUSIBLE DISCONNECT SWITCH:

The optional switch assembly is fusible, but furnished less fuses. Capacity of manual disconnect switch determined by fuse size required by National Electrical Code 430-62. (Allowable fuse size of largest motor, based on NEC table 430-152, plus sum of full load currents of the other motors.) Fusible disconnect will have lock-out provisions in NEMA type 3R enclosure. Two fuse sizes are available—30 and 60 amps, 600 volts. Switch furnished loose for field mounting.

Specify fusible disconnect switch and fuse size.



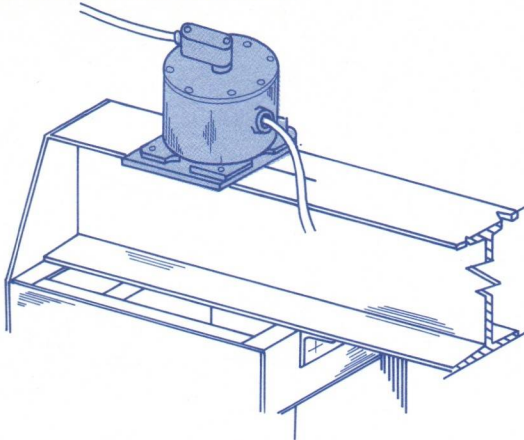


## SERIES 510 JIB CRANE MODIFICATIONS AND ACCESSORIES

51-43 Issued 10-1-85

**1/4 to 5  
TONS**

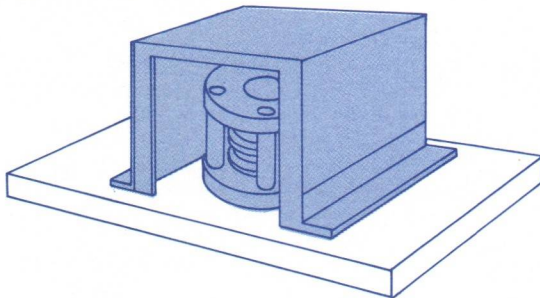
### TOP ENTRY COLLECTOR ASSEMBLY:



Top entry electrical assembly is available as optional equipment on all Series 513 and 514 jib cranes where electrical power source can be connected from top of the jib crane. It permits continuous uninterrupted rotation. Internal wiring in pillar is not necessary. The assembly includes NEMA Type 3R enclosure and mounting plate. Collector enclosure is furnished loose and affects headroom of the jib crane. Festooned tagline hardware is furnished with assembly. Specify additional length of power cable on hoist when ordering.

To order specify top entry collector assembly.

### ELECTRICAL BOTTOM ENTRY COLLECTOR ASSEMBLY:



Bottom entry electrical collector assembly is available as optional equipment on series 513 and 514 jib crane permitting 360° continuous uninterrupted rotation. It is necessary where electrical power source can not be connected from top of jib crane. The assembly includes side collector rings, NEMA type 1 enclosure, and festooned tagline hardware. Price does not include junction boxes, internal wiring, and power supply cable to the hoist. Specify additional length of power cable on hoist when ordering. To order specify electrical bottom entry collector assembly.

### WEATHERPROOFED BOTTOM ENTRY COLLECTOR:

NEMA type 3R enclosure is available as optional equipment for bottom entry collector assembly.

Specify weatherproofed bottom entry collector assembly.

## **E** AIR SUPPLIES

### AIR SWIVEL BOTTOM ENTRY ASSEMBLY:

Bottom entry air swivel assembly is available as optional equipment on Series 513 and 514 jib crane permitting 360° continuous uninterrupted rotation. It is necessary where air power source can not be connected from the top of jib crane. The assembly includes internal mast piping, swivel assembly and festooned tagline hardware. Specify additional length of air power hose. Two pipe sizes are available — 1/2 or 3/4 inch. Specify air swivel bottom entry assembly and pipe size.

## **F** GENERAL

### Export Packing

Contact factory.

### Field Service by Factory Personnel

Installation and start-up supervision or check-out is available.

The charges are based on an eight hour day, Saturday and Sunday included if necessary. Anytime beyond eight hours per day, unless by **Acco** option, will be charged.

In addition expenses will be billed portal to portal.

For maintenance and repair service agreements and field service charges refer to **Acco** Service Contract. Form 11-10-003. Field sales representatives are also available for start-up supervision. Contact Hoist & Crane Division of **Acco** Industries Inc. regional office.

### Special Inspection

Orders or quotes specifying physical inspection of either parts or assemblies by other than **Acco** employees at the Hoist & Crane Division plant prior to shipment will carry an additional charge.

### Special Painting

Standard surface preparation prior to painting is wire brushing.

Standard paint for **Acco** products is yellow air dry enamel #18538B that matches Federal Standard color chart #595 type 13538.

Equipment requiring colors other than standard and/or special surface preparation will be priced from the factory.

Any order received at the **Acco** Industries, Inc. Hoist & Crane Division, processed into the schedule and then revised to include special paint or surface preparation, will be subject not only to the change for the special paint and surface preparation but also a handling charge.

### GALVANIZING

Contact factory.

**WARNING:** Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

**WARNING:** Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



## **Acco Products Division**

A division of Babcock Industries Inc.

1110 E. Princess Street, York, PA 17403  
Telephone 717 843-1523  
FAX 717 846-5387 Telex 84-0411

12140 Bellflower Blvd., Downey, CA 90241  
Telephone 213 862-8101 Telex 69-8196

A member of the Acco Material Handling Group

**Babcock**

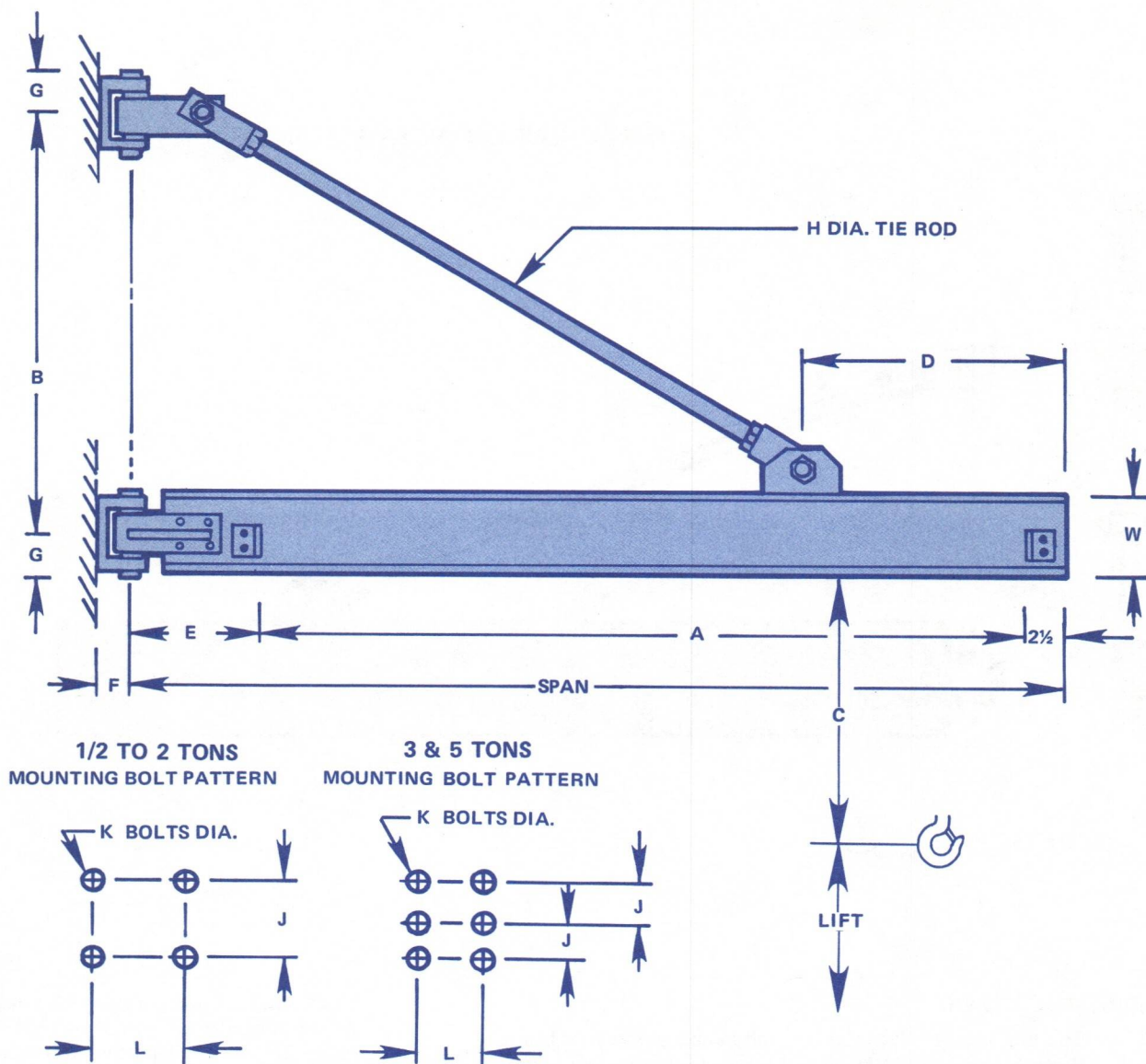
© Acco Babcock Inc. 1987  
Printed in U.S.A.





# SERIES 511 WALL BRACKET JIB CRANE

51-44  
Issued 10-1-85



Minimum OSHA clearance between crane and obstruction requires 2" lateral and 3" overhead.

CUSTOMER: \_\_\_\_\_

CUST. ORDER NO. \_\_\_\_\_

H&C QUOTE NO. \_\_\_\_\_

H&C JOB NO. \_\_\_\_\_

DATE \_\_\_\_\_

SERIAL NO. \_\_\_\_\_

CUSTOMER APPROVAL \_\_\_\_\_

JIB CRANE PROD. NO. \_\_\_\_\_

CAPACITY \_\_\_\_\_

SPAN \_\_\_\_\_

LIFT \_\_\_\_\_

HOIST PROD. NO. \_\_\_\_\_

TROLLEY PROD. NO. \_\_\_\_\_

BOOM

BEAM \_\_\_\_\_

CAP. CH. \_\_\_\_\_

FLANGE WIDTH \_\_\_\_\_

POWER SUPPLY \_\_\_\_\_

CRANE WT. \_\_\_\_\_

A \_\_\_\_\_

B \_\_\_\_\_

C \_\_\_\_\_

D \_\_\_\_\_

E \_\_\_\_\_

F \_\_\_\_\_

G \_\_\_\_\_

H \_\_\_\_\_

J \_\_\_\_\_

K \_\_\_\_\_

L \_\_\_\_\_

W \_\_\_\_\_

DATE SIGNATURE \_\_\_\_\_

All dimensions shown in inches.

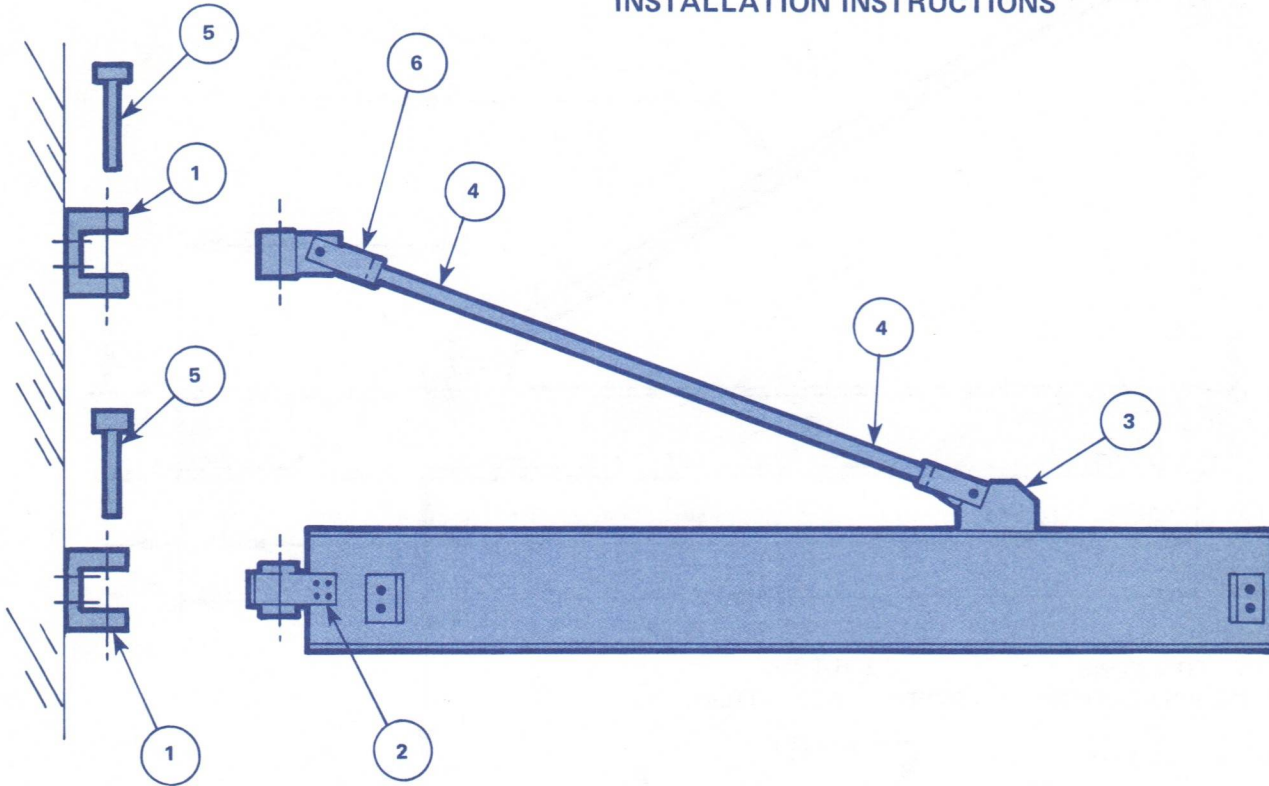


**1/2 to 5  
TONS**

**SERIES 511 WALL BRACKET  
JIB CRANE**

51-45

**INSTALLATION INSTRUCTIONS**



**INSTRUCTIONS:**

1. Bolt brackets No. (1) to structurally adequate wall or beam. (Bolts by others). Make sure brackets are in line and plumb through holes for bolts (5).
2. Bolt brackets (2) and (3) to beam. (Hardware supplied)
3. Attach tension rod to brackets (3) and (6). Two nuts supplied for each end.
4. Attach beam to wall brackets (1) using bolts (5) supplied. Level beam by adjusting tension rod.
5. Add trolley stops and hoist.

**WARNING:** Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

**WARNING:** Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



**Acco Products Division**

A division of Babcock Industries Inc.

1110 E. Princess Street, York, PA 17403  
Telephone 717 843-1523  
FAX 717 846-5387 Telex 84-0411

12140 Bellflower Blvd., Downey, CA 90241  
Telephone 213 862-8101 Telex 69-8196

A member of the Acco Material Handling Group

**Babcock**

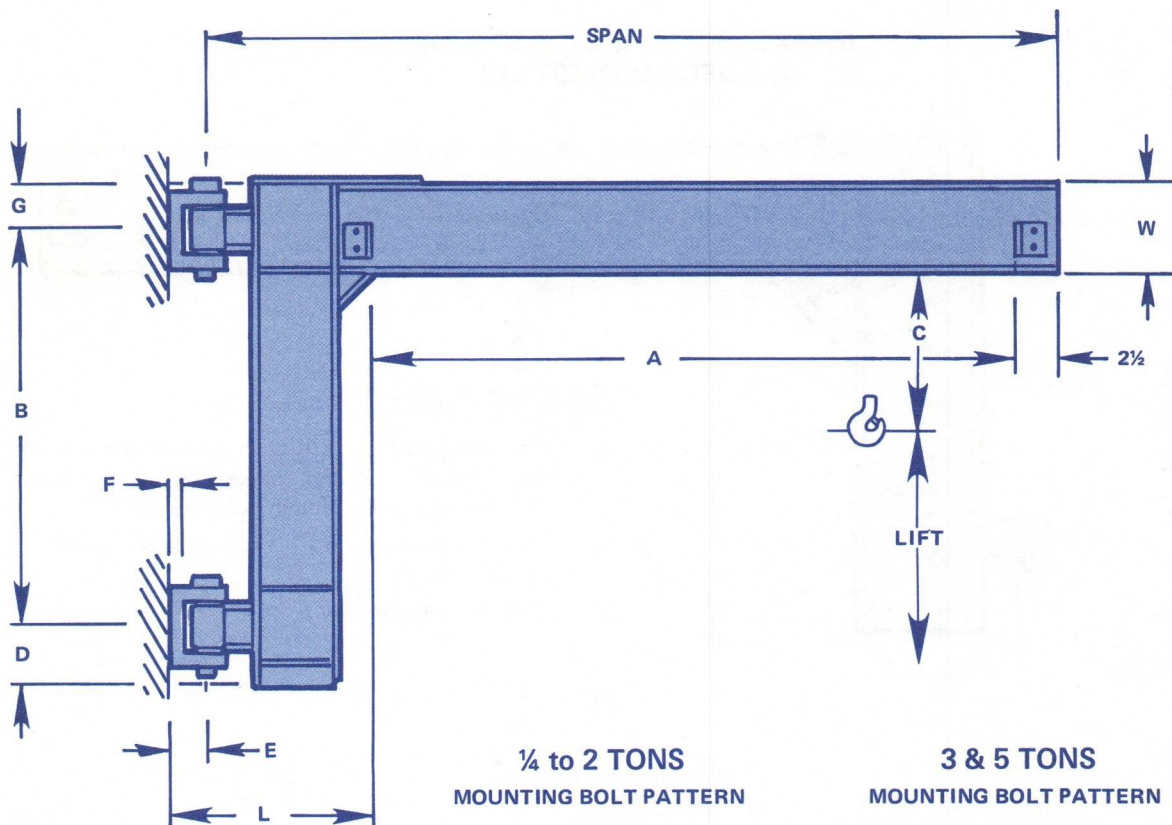
© Acco Babcock Inc. 1987  
Printed in U.S.A.



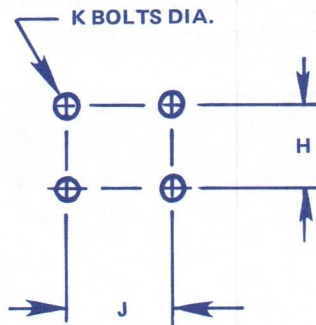


**SERIES 512 WALL CANTILEVER  
JIB CRANES**

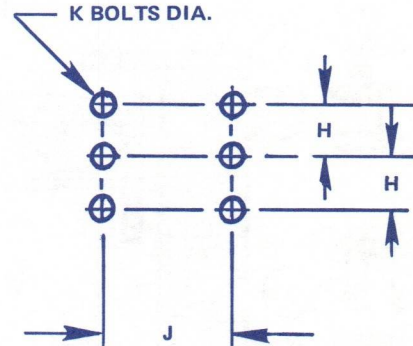
51-46  
Issued 10-1-85



**¼ to 2 TONS  
MOUNTING BOLT PATTERN**



**3 & 5 TONS  
MOUNTING BOLT PATTERN**



Minimum OSHA clearance between crane and obstruction requires  
2" lateral and 3" overhead.

CUSTOMER: \_\_\_\_\_

CUST. ORDER NO. \_\_\_\_\_

H&C QUOTE NO. \_\_\_\_\_

H&C JOB NO. \_\_\_\_\_

DATE \_\_\_\_\_

SERIAL NO. \_\_\_\_\_

CUSTOMER APPROVAL \_\_\_\_\_

JIB CRANE PROD. NO. \_\_\_\_\_

CAPACITY \_\_\_\_\_

SPAN \_\_\_\_\_

LIFT \_\_\_\_\_

HOIST PROD. NO. \_\_\_\_\_

TROLLEY PROD. NO. \_\_\_\_\_

BOOM \_\_\_\_\_

BEAM \_\_\_\_\_

CAP. CH. \_\_\_\_\_

FLANGE WIDTH \_\_\_\_\_

POWER SUPPLY \_\_\_\_\_

CRANE WT. \_\_\_\_\_

A \_\_\_\_\_

B \_\_\_\_\_

C \_\_\_\_\_

D \_\_\_\_\_

E \_\_\_\_\_

F \_\_\_\_\_

G \_\_\_\_\_

H \_\_\_\_\_

J \_\_\_\_\_

K \_\_\_\_\_

L \_\_\_\_\_

W \_\_\_\_\_

DATE SIGNATURE \_\_\_\_\_

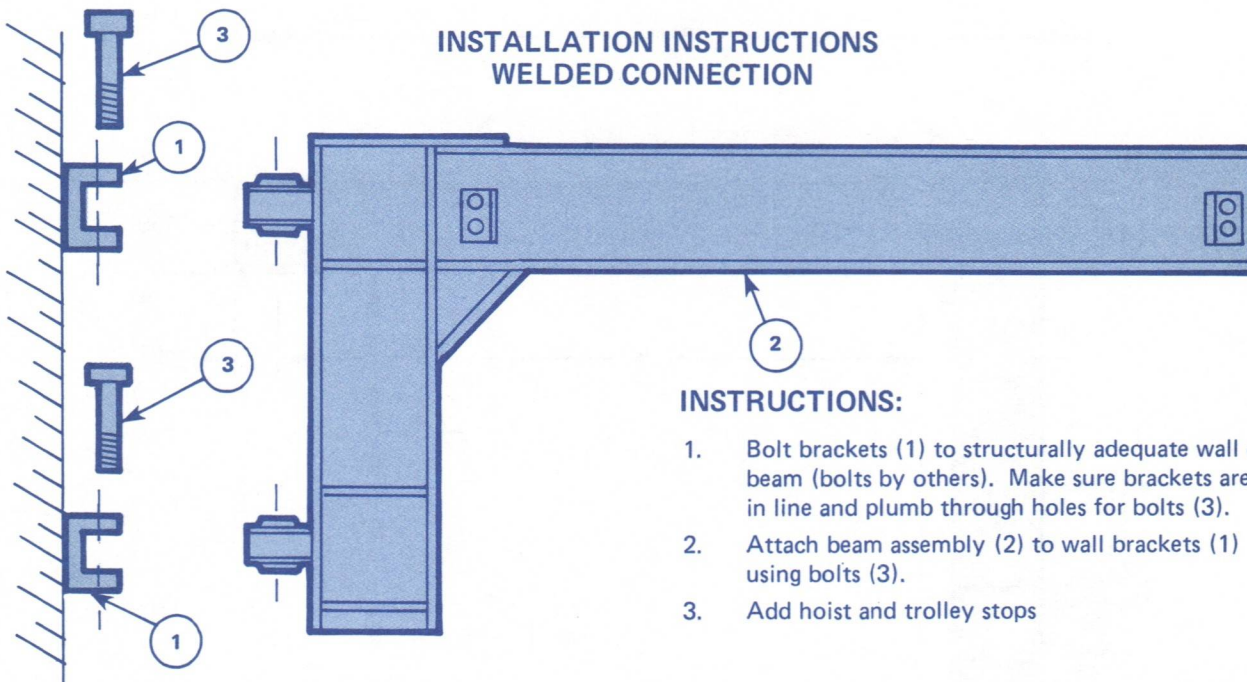
All dimensions shown in inches.



**1/4 to 5  
TONS**

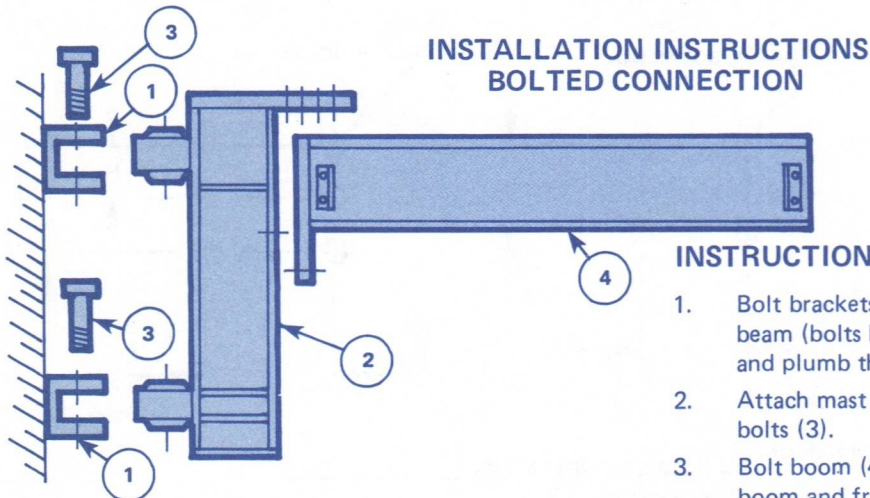
**SERIES 512 WALL CANTILEVER  
JIB CRANES**

51-47



**INSTRUCTIONS:**

1. Bolt brackets (1) to structurally adequate wall or beam (bolts by others). Make sure brackets are in line and plumb through holes for bolts (3).
2. Attach beam assembly (2) to wall brackets (1) using bolts (3).
3. Add hoist and trolley stops



**INSTRUCTIONS:**

1. Bolt brackets (1) to structurally adequate wall or beam (bolts by others). Make sure brackets are in line and plumb through holes for bolts (3).
2. Attach mast assembly (2) to wall brackets (1) using bolts (3).
3. Bolt boom (4) to mast with bolts provided for the top of boom and front of mast.
4. Be sure that the boom is leveled properly to a point of  $L/300$  (length of span divided by 300) above level.
5. Add hoist and trolley stops

**WARNING:** Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

**WARNING:** Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



**Acco Products Division**

A division of Babcock Industries Inc.

1110 E. Princess Street, York, PA 17403  
Telephone 717 843-1523  
FAX 717 846-5387 Telex 84-0411

12140 Bellflower Blvd., Downey, CA 90241  
Telephone 213 862-8101 Telex 69-8196

A member of the Acco Material Handling Group

**Babcock**

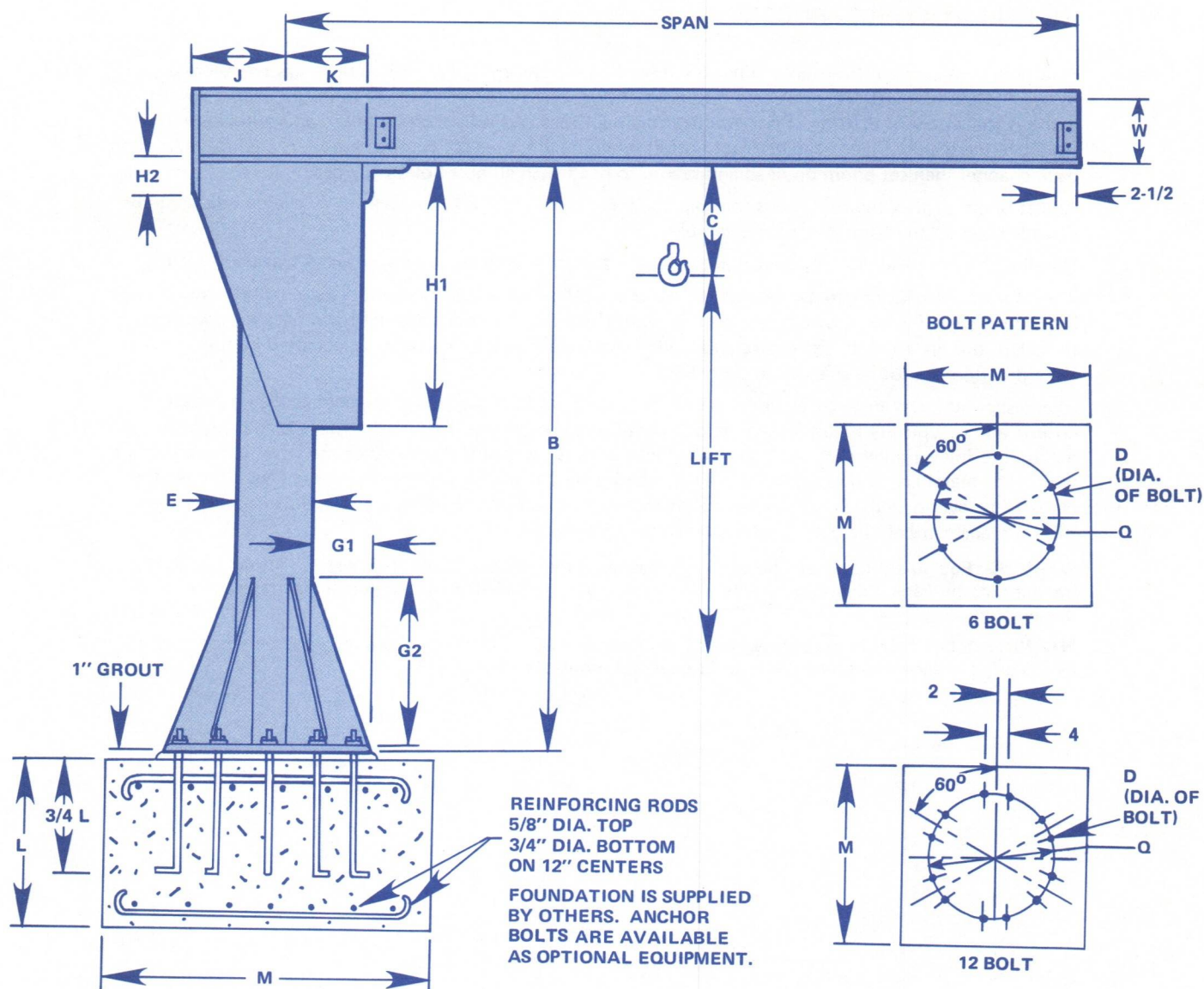
© Acco Babcock Inc. 1987  
Printed in U.S.A.





**SERIES 513 360° BASE MOUNTED  
FREE STANDING JIB CRANES**

51-48  
Issued 10-1-85



Minimum OSHA clearance between crane and obstruction requires 2" lateral and 3" overhead.

CUSTOMER: \_\_\_\_\_

CUST. ORDER NO. \_\_\_\_\_

H&C QUOTE NO. \_\_\_\_\_

H&C JOB NO. \_\_\_\_\_

DATE \_\_\_\_\_

SERIAL NO. \_\_\_\_\_

CUSTOMER APPROVAL \_\_\_\_\_

DATE SIGNATURE \_\_\_\_\_

JIB CRANE PROD. NO. \_\_\_\_\_

CAPACITY \_\_\_\_\_

SPAN \_\_\_\_\_

LIFT \_\_\_\_\_

HOIST PROD. NO. \_\_\_\_\_

TROLLEY PROD. NO. \_\_\_\_\_

BOOM

BEAM \_\_\_\_\_

CAP. CH. \_\_\_\_\_

FLANGE WIDTH \_\_\_\_\_

POWER SUPPLY \_\_\_\_\_

CRANE WT. \_\_\_\_\_

B \_\_\_\_\_

C \_\_\_\_\_

D \_\_\_\_\_

E \_\_\_\_\_

G<sub>1</sub> \_\_\_\_\_

G<sub>2</sub> \_\_\_\_\_

H<sub>1</sub> \_\_\_\_\_

H<sub>2</sub> \_\_\_\_\_

J \_\_\_\_\_

K \_\_\_\_\_

L \_\_\_\_\_

M \_\_\_\_\_

Q \_\_\_\_\_

W \_\_\_\_\_

All dimensions shown inches



**1/4 to 5  
TONS**

**SERIES 513 360° BASE MOUNTED  
FREE STANDING JIB CRANES**

51-49

## INSTALLATION INSTRUCTIONS

Pour and install anchor bolts according to the footing dimensions given. When pour has completely set secure and plumb mast. It is critical that the mast be properly plumb in order to insure proper rotation without the worry of drifting. Place top bearing inner race and rollers on pivot pin and outer race in head bearing block. Place head on mast, install retaining pin, plus collector assembly if applicable. Install back channel then set boom on head and secure to head with all bolt holes provided.

Adjust boom so that the free end is the span in inches divided by 300 above level by evenly adjusting the threaded rod on the trunnion roller assembly.

Install crane electrification if applicable then place the collector/top bearing cover in place and secure.

Take normal precautions to assure that the crane operates in a proper manner. These include, but are not limited to, checking for obstructions in crane swing being sure all bolts are tight and have lock washers, threaded rods are securely tightened, and trolley stops are in place. If crane is electrified be sure electrification cannot be snagged or pinched.

The design factor of an *Acco* jib crane is one that is required for our design to meet accepted design criteria and is typically based on the yield strength of the materials used. Its purpose is to protect against manufacturing variables such as: steel mill rolling tolerances, residual stresses or the stress concentrations within the members, and variables in our manufacturing process. It is not incorporated to allow for the crane to be overloaded. Be sure that your installers, maintenance personnel, and operators realize that this jib crane can only be used to pick up a maximum of its rated capacity.

**WARNING:** Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

**WARNING:** Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



### **Acco Products Division**

A division of Babcock Industries Inc.

1110 E. Princess Street, York, PA 17403  
Telephone 717 843-1523  
FAX 717 846-5387 Telex 84-0411

A member of the Acco Material Handling Group

12140 Bellflower Blvd., Downey, CA 90241  
Telephone 213 862-8101 Telex 69-8196

**Babcock**

© Acco Babcock Inc. 1987  
Printed in U.S.A.

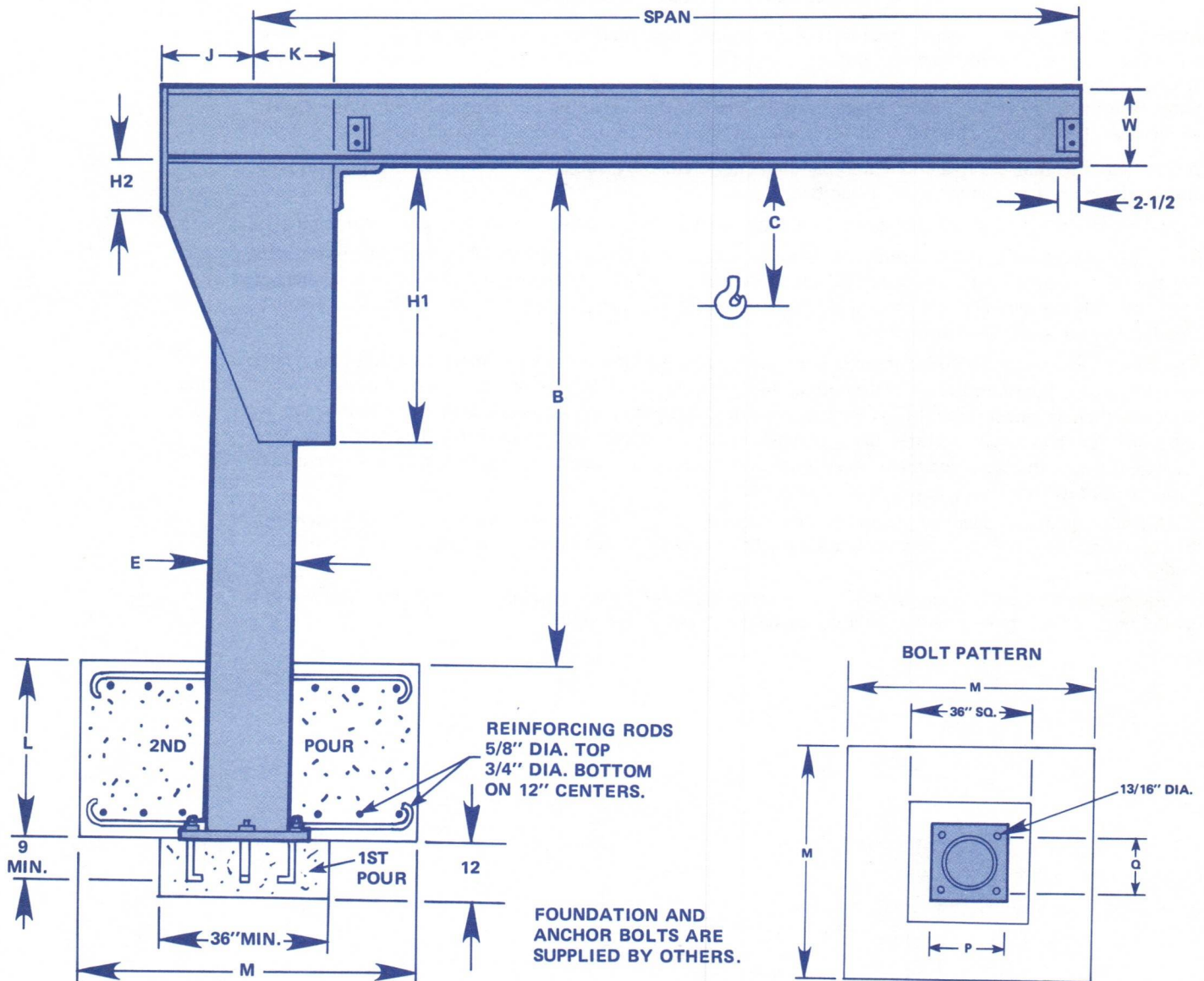




**SERIES 514 360° Insert Mounted  
Free Standing Jib Crane**

**STANDARD  
INSERT**

51-50  
Issued 10-1-85



Minimum OSHA clearance between crane and obstruction requires 2" lateral and 3" overhead.

CUSTOMER: \_\_\_\_\_

CUST. ORDER NO. \_\_\_\_\_

H&C QUOTE NO. \_\_\_\_\_

H&C JOB NO. \_\_\_\_\_

DATE \_\_\_\_\_

SERIAL NO. \_\_\_\_\_

CUSTOMER APPROVAL \_\_\_\_\_

JIB CRANE PROD. NO. \_\_\_\_\_

CAPACITY \_\_\_\_\_

SPAN \_\_\_\_\_

LIFT \_\_\_\_\_

HOIST PROD. NO. \_\_\_\_\_

TROLLEY PROD. NO. \_\_\_\_\_

BOOM \_\_\_\_\_

BEAM \_\_\_\_\_

CAP. CH. \_\_\_\_\_

FLANGE WIDTH \_\_\_\_\_

POWER SUPPLY \_\_\_\_\_

CRANE WT. \_\_\_\_\_

B \_\_\_\_\_

C \_\_\_\_\_

E \_\_\_\_\_

H<sub>1</sub> \_\_\_\_\_

H<sub>2</sub> \_\_\_\_\_

J \_\_\_\_\_

K \_\_\_\_\_

L \_\_\_\_\_

M \_\_\_\_\_

P \_\_\_\_\_

Q \_\_\_\_\_

W \_\_\_\_\_

DATE SIGNATURE \_\_\_\_\_

All dimensions shown in inches.



**1/4 to 5  
TONS**

**SERIES 514 360° Insert Mounted  
Free Standing Jib Cranes**

**STANDARD  
INSERT**

51-51

## **INSTALLATION INSTRUCTIONS**

Install first (1st) pour as shown with anchor bolts until base plate is secure and mast is plumb. Make second pour according to the footing dimensions given.

When second pour has completely set up, place top bearing inner race and rollers on pivot pin and outer race in head bearing block. Place head on mast, install retaining pin, plus collector assembly if applicable. Install back channel then set boom on head and secure to head with all bolt holes provided.

Adjust boom so that the free end is the span in inches divided by 300 above level by evenly adjusting the threaded rod on the trunnion roller assembly.

Install crane electrification if applicable then place the collector/top bearing cover in place and secure.

Take normal precautions to assure that the crane operates in a proper manner. These include, but are not limited to, checking for obstructions in crane swing being sure all bolts are tight and have lock washers, threaded rods are securely tightened, and trolley stops are in place. If crane is electrified be sure electrification cannot be snagged or pinched.

The design factor of an Acco jib crane is one that is required for our design to meet accepted design criteria and is typically based on the yield strength of the materials used. Its purpose is to protect against manufacturing variables such as: steel mill rolling tolerances, residual stresses or the stress concentrations within the members, and variables in our manufacturing process. It is not incorporated to allow for the crane to be overloaded. Be sure that your installers, maintenance personnel, and operators realize that this jib crane can only be used to pick up a maximum of its rated capacity.

**WARNING:** Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

**WARNING:** Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



**Acco Products Division**

A division of Babcock Industries Inc.

1110 E. Princess Street, York, PA 17403  
Telephone 717 843-1523  
FAX 717 846-5387 Telex 84-0411

A member of the Acco Material Handling Group

12140 Bellflower Blvd., Downey, CA 90241  
Telephone 213 862-8101 Telex 69-8196

**Babcock**

© Acco Babcock Inc. 1987  
Printed in U.S.A.

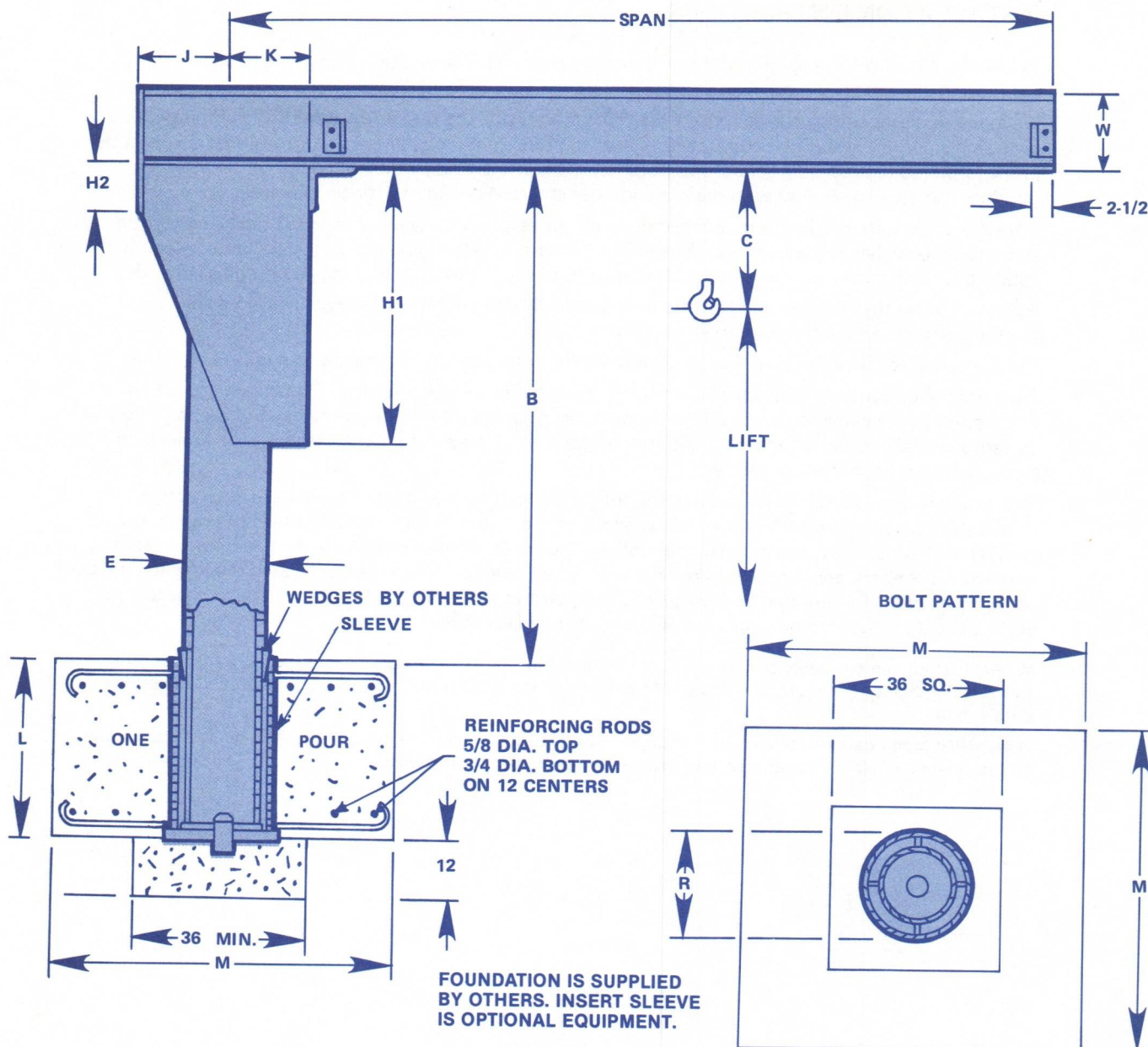




**SERIES 514 360° INSERT MOUNTED  
FREE STANDING JIB CRANES**

**OPTIONAL  
SLEEVE INSERT**

51-52  
Issued 10-1-85





**1/4 to 5  
TONS**

**SERIES 514 360° INSERT MOUNTED  
FREE STANDING JIB CRANES**

**OPTIONAL  
SLEEVE INSERT**

51-53

## **INSTALLATION INSTRUCTIONS**

Install first 12" of pour as shown with insert sleeve secure and plumb. Make remaining pour according to the footing dimensions given.

When the pour has completely set, insert the crane mast inside the sleeve. Be sure to align mast with the centering pin in the sleeve. Next use steel wedges to properly plumb mast. (It is critical that the mast be properly plumb in order to insure proper rotation without the worry of drifting.) Once the mast has been plumbed, weld the steel wedges to the mast and sleeve to prevent any shifting of the mast.

Once mast has been installed and plumbed properly, place top bearing inner race and rollers on pivot pin and outer race in head bearing block. Place head on mast, install retaining pin, plus collector assembly if applicable. Install back channel then set boom on head and secure to head with all bolt holes provided.

Adjust boom so that the free end is the span in inches divided by 300 above level by evenly adjusting the threaded rod on the trunnion roller assembly.

Install crane electrification if applicable then place the collector/top bearing cover in place and secure.

Take normal precautions to assure that the crane operates in a proper manner. These include, but are not limited to, checking for obstructions in crane swing being sure all bolts are tight and have lock washers, threaded rods are securely tightened, and trolley stops are in place. If crane is electrified be sure electrification cannot be snagged or pinched.

The design factor of an *Acco* jib crane is one that is required for our design to meet accepted design criteria and is typically based on the yield strength of the materials used. Its purpose is to protect against manufacturing variables such as: steel mill rolling tolerances, residual stresses or the stress concentrations within the members, and variables in our manufacturing process. It is not incorporated to allow for the crane to be overloaded. Be sure that your installers, maintenance personnel, and operators realize that this jib crane can only be used to pick up a maximum of its rated capacity.

**WARNING:** Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

**WARNING:** Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



**Acco Products Division**

A division of Babcock Industries Inc.

1110 E. Princess Street, York, PA 17403  
Telephone 717 843-1523  
FAX 717 846-5387 Telex 84-0411

12140 Bellflower Blvd., Downey, CA 90241  
Telephone 213 862-8101 Telex 69-8196

A member of the Acco Material Handling Group

**Babcock**

© Acco Babcock Inc. 1987  
Printed in U.S.A.

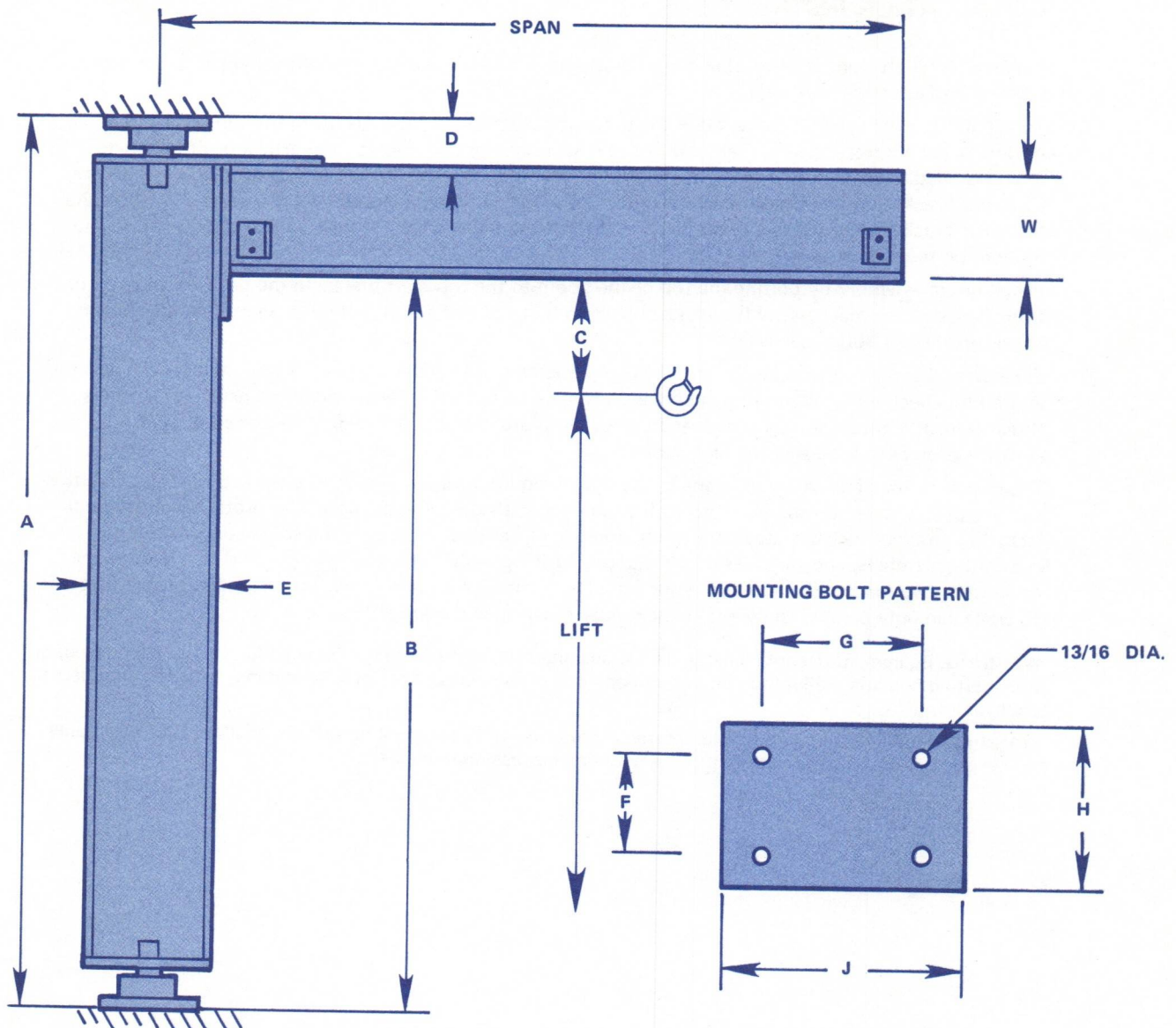




**SERIES 515 MAST TYPE CANTILEVER  
JIB CRANE**

**STANDARD  
FULL CANTILEVER**

51-54  
Issued 10-1-85



Minimum OSHA clearance between crane and obstruction requires  
2" lateral and 3" overhead.

CUSTOMER: \_\_\_\_\_

CUST. ORDER NO. \_\_\_\_\_

H&C QUOTE NO. \_\_\_\_\_

H&C JOB NO. \_\_\_\_\_

DATE \_\_\_\_\_

SERIAL NO. \_\_\_\_\_

CUSTOMER APPROVAL \_\_\_\_\_

JIB CRANE PROD. NO. \_\_\_\_\_

CAPACITY \_\_\_\_\_

SPAN \_\_\_\_\_

LIFT \_\_\_\_\_

HOIST PROD. NO. \_\_\_\_\_

TROLLEY PROD. NO. \_\_\_\_\_

BOOM

BEAM \_\_\_\_\_

CAP. CH. \_\_\_\_\_

FLANGE WIDTH \_\_\_\_\_

POWER SUPPLY \_\_\_\_\_

CRANE WT. \_\_\_\_\_

A \_\_\_\_\_

B \_\_\_\_\_

C \_\_\_\_\_

D \_\_\_\_\_

E \_\_\_\_\_

F \_\_\_\_\_

G \_\_\_\_\_

H \_\_\_\_\_

J \_\_\_\_\_

W \_\_\_\_\_

DATE SIGNATURE \_\_\_\_\_

All dimensions shown in inches.



**1/2 to 5  
TONS**

**SERIES 515 MAST TYPE CANTILEVER  
JIB CRANE**

**STANDARD  
FULL CANTILEVER**

51-55

## **INSTALLATION INSTRUCTIONS:**

The mast type jib crane is shipped as a mast assembly, a boom assembly, top pivot bracket, bottom pivot bracket, and assembly hardware.

To install the mast type jib crane, place the top and bottom pivot brackets on to the top pivot pin and the bottom pivot pin respectively. Take the entire mast assembly and raise it to a vertical position where it is to be installed. One inch (1") clearance should be allowed overhead to ease installation. Then shim the top pivot bracket until the mast is in a true vertical plane and drop a plumb line to insure. Now bolt the top pivot bracket to its overhead support and the bottom pivot bracket to the existing floor. No special foundation requirements are necessary.

Install boom assembly by bolting the top of the boom to the top mast plate and the back boom plate to the front flange of the mast assembly. Adjust boom so that the free end is leveled to a point of the span in inches divided by 300 above level.

Take normal precautions to assure that the crane operates in a proper manner. These include, but are not limited to, checking for obstructions in crane swing being sure all bolts are tight and have lock washers, threaded rods are securely tightened, and trolley stops are in place. If crane is electrified be sure electrification cannot be snagged or pinched.

The design factor of an *Acco* jib crane is one that is required for our design to meet accepted design criteria and is typically based on the yield strength of the materials used. Its purpose is to protect against manufacturing variables such as: steel mill rolling tolerances, residual stresses or the stress concentrations within the members, and variables in our manufacturing process. It is not incorporated to allow for the crane to be overloaded. Be sure that your installers, maintenance personnel, and operators realize that this jib crane can only be used to pick up a maximum of its rated capacity.

**WARNING:** Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

**WARNING:** Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



**Acco Products Division**

A division of Babcock Industries Inc.

1110 E. Princess Street, York, PA 17403  
Telephone 717 843-1523  
FAX 717 846-5387 Telex 84-0411

12140 Bellflower Blvd., Downey, CA 90241  
Telephone 213 862-8101 Telex 69-8196

A member of the Acco Material Handling Group

**Babcock**

© Acco Babcock Inc. 1987  
Printed in U.S.A.

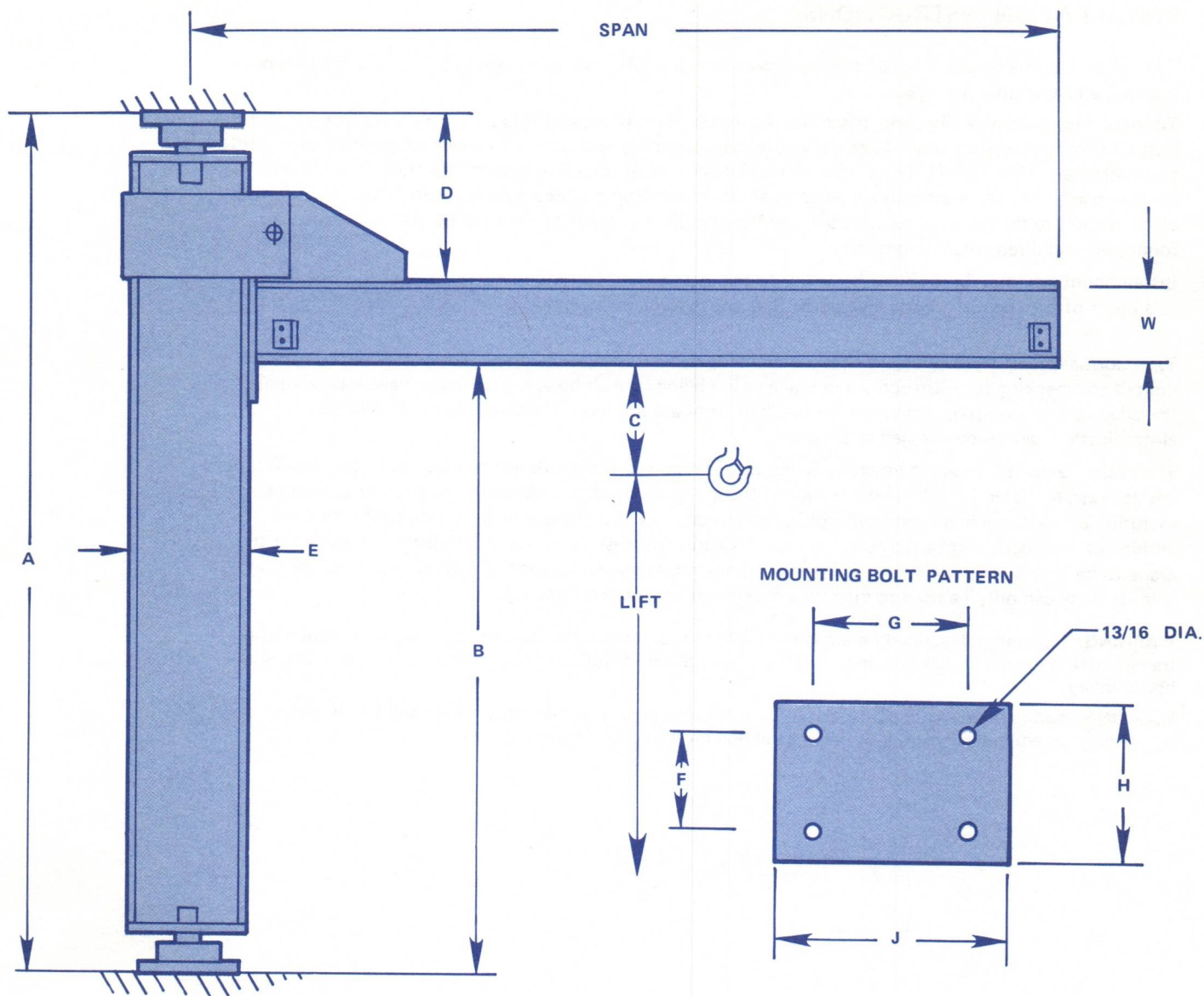




**SERIES 515 MAST TYPE CANTILEVER  
JIB CRANE**

**OPTIONAL DROP  
CANTILEVER**

51-56  
Issued 10-1-85



Minimum OSHA clearance between crane and obstruction requires  
2" lateral and 3" overhead.

CUSTOMER: \_\_\_\_\_

CUST. ORDER NO. \_\_\_\_\_

H&C QUOTE NO. \_\_\_\_\_

H&C JOB NO. \_\_\_\_\_

DATE \_\_\_\_\_

SERIAL NO. \_\_\_\_\_

CUSTOMER APPROVAL \_\_\_\_\_

JIB CRANE PROD. NO. \_\_\_\_\_

CAPACITY \_\_\_\_\_

SPAN \_\_\_\_\_

LIFT \_\_\_\_\_

HOIST PROD. NO. \_\_\_\_\_

TROLLEY PROD. NO. \_\_\_\_\_

BOOM

BEAM \_\_\_\_\_

CAP. CH. \_\_\_\_\_

FLANGE WIDTH \_\_\_\_\_

POWER SUPPLY \_\_\_\_\_

CRANE WT. \_\_\_\_\_

A \_\_\_\_\_  
B \_\_\_\_\_  
C \_\_\_\_\_  
D \_\_\_\_\_  
E \_\_\_\_\_  
F \_\_\_\_\_  
G \_\_\_\_\_  
H \_\_\_\_\_  
J \_\_\_\_\_  
W \_\_\_\_\_

DATE SIGNATURE \_\_\_\_\_

All dimensions shown inches



**1/2 to 5  
TONS**

**SERIES 515 MAST TYPE CANTILEVER  
JIB CRANE**

**OPTIONAL  
DROP CANTILEVER**

51-57

**INSTALLATION INSTRUCTIONS:**

The mast type jib crane is shipped as a mast assembly, a boom assembly, top pivot bracket, bottom pivot bracket, and assembly hardware.

To install the mast type jib crane, place the top and bottom pivot brackets on to the top pivot pin and the bottom pivot pin respectively. Take the entire mast assembly and raise it to a vertical position where it is to be installed. One inch (1") clearance should be allowed overhead to ease installation. Then shim the top pivot bracket until the mast is in a true vertical plane and drop a plumb line to insure. Now bolt the top pivot bracket to its overhead support and the bottom pivot bracket to the existing floor. No special foundation requirements are necessary.

Install boom assembly by bolting the boom to the mast assembly. Adjust boom so that the free end is leveled to a point of the span in inches divided by 300 above level.

Take normal precautions to assure that the crane operates in proper manner. These include, but are not limited to, checking for obstructions in crane swing being sure all bolts are tight and have lock washers, threaded rods are securely tightened, and trolley stops are in place. If crane is electrified be sure electrification cannot be snagged or pinched.

The design factor of an *Acco* jib crane is one that is required for our design to meet accepted design criteria and is typically based on the yield strength of the materials used. Its purpose is to protect against manufacturing variables such as: steel mill rolling tolerances, residual stresses or the stress concentrations within the members, and variables in our manufacturing process. It is not incorporated to allow for the crane to be overloaded. Be sure that your installers, maintenance personnel, and operators realize that this jib crane can only be used to pick up a maximum of its rated capacity.

**WARNING:** Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.

**WARNING:** Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer.



**Acco Products Division**

A division of Babcock Industries Inc.

1110 E. Princess Street, York, PA 17403  
Telephone 717 843-1523  
FAX 717 846-5387 Telex 84-0411

12140 Bellflower Blvd., Downey, CA 90241  
Telephone 213 862-8101 Telex 69-8196

A member of the Acco Material Handling Group

**Babcock**

© Acco Babcock Inc. 1987  
Printed in U.S.A.